

The Trade Wind Zone Oceanography Pilot Study
Part II: Townsend Cromwell Cruises 4, 5, and 6
May to July 1964

By Robert L. Charnell, David W. K. Au,
and Gunter R. Seckel

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ABSTRACT

A standard grid of oceanographic stations in an area bounded by lat. 10° and 26° N., and long. 148° and 157° W., was occupied at monthly intervals between February 1964 and June 1965. For the second set of three cruises, Townsend Cromwell cruises 4, 5, and 6, May to July 1964, oceanographic station data are tabulated, BT data are presented in vertical sections, and the distribution of surface temperature, surface salinity, and surface dynamic height relative to 1,200 m. are shown in charts for each cruise. Methods and procedures as well as the limitations of the data are discussed.

INTRODUCTION

This is the second of a series of reports presenting physical oceanographic data of the Trade Wind Zone Oceanography Pilot Study conducted by the Bureau of Commercial Fisheries Biological Laboratory, Honolulu. The data were obtained during a series of 16 monthly cruises between February 1964 and June 1965 over a set station pattern in an area near the Hawaiian Islands bounded approximately by lat. 10° and 26° N. and long. 148° and 157° W.

The complete set of observations represents a three-dimensional time-sequence distribution of properties (temperature, salinity....) in the trade wind zone of the central North Pacific. It is a pilot study of an investigation in which seasonal changes in the distribution of properties are to be explained in terms of 1) seasonal

changes in the processes of net heat and water exchange across the sea surface, and 2) the effects of seasonal changes in wind stress and water motion. The Trade Wind Zone Oceanography Program was planned by Gunter R. Seckel and is carried out under his direction by HL (Bureau of Commercial Fisheries Biological Laboratory, Honolulu).

This report contains the BT (bathythermograph) and oceanographic station data for the fourth, fifth, and sixth cruises in the series. Figure 1 shows the cruise track for the three cruises and gives the position of the Nansen bottle oceanographic casts and the BT casts.

All cruises were made by the R/V Townsend Cromwell, commanded by Captain Robert E. K. D. Lee, with officers Jan Liefing and Pete Andrich. The scientific parties were composed of the following:

Townsend Cromwell, cruise 4:

May 14 to June 5, 1964

David W. K. Au - HL - Field Party Chief

Howard Adrian - HL

Claude E. Allen - HL

Melvin E. Kau - HL

James H. Uchiyama - HL

David Bratley - Smithsonian Institution

Warren King - Smithsonian Institution

Note.--Robert L. Charnell, Oceanographer, presently with Hazelton Nuclear Science Corp., Palo Alto, California 94303, formerly with Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii; David W. K. Au, Physical Science Technician and Gunter R. Seckel, Oceanographer, Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812.

Townsend Cromwell, cruise 5:

June 15 to July 5, 1964

Robert P. Brown - HL - Field Party Chief
Howard Adrian - HL
Melvin E. Kau - HL
Michael R. Marcotte - HL
Stephen M. Skolnick - HL
Dayle N. Husted - Smithsonian Institution
Warren King - Smithsonian Institution

Townsend Cromwell, cruise 6:

July 13 to August 1, 1964

David W. K. Au - HL - Field Party Chief
Howard Adrian - HL
Claude E. Allen - HL
Arthur M. Bauckham, Jr. - HL
Paul M. Shiota - HL
Dayle N. Husted - Smithsonian Institution
Warren King - Smithsonian Institution
H. W. Tinkelenberg - Massachusetts Institute
of Technology

OBSERVATIONS^{1/}

In addition to the regular Nansen and BT casts shown in figure 1, BT casts were made at 18.5-km. (10-nautical-mile) intervals for studies of variability between stations 19 and 21, 26 and 28, and 35 and 37.

To supplement the physical oceanographic data presented in this report, additional information of the following types was obtained.

Biological

A 1/2-hour surface plankton tow was taken daily at 2000 hours with a 1-m.net. Flyingfish which stranded themselves on deck were collected daily. Regular observations of fish schools, sea mammals, and birds were supplemented by more detailed bird counts by observers from the Smithsonian Institution.

Meteorological

Rain measurements as well as standard weather observations were taken four times daily. Radiation from sun and sky was measured and recorded daily with an Eppley^{2/} pyranometer. These observations were supplemented by daily color photographs of clouds.

Current

Ten plastic-enclosed drift cards, described by Barkley, Ito, and Brown (1964), were released at each BT cast. Current-measuring techniques were tested with an Ekman current meter on cruise 4 and a Roberts meter on cruise 5, both suspended from the ship. The ship was drifting relative to a parachute drogue placed at a depth of 1,200 m. On cruise 6, H. W. Tinkelenberg conducted sound-ranging tests using subsurface floats which imploded in the sound channel after a period of time. Results of these tests can be obtained from H. Stommel, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

PREPARATION OF DATA

Standard oceanographic procedures were employed in the preparation of the data for this report. Salinity determinations were made on the University of Washington salinity bridge (Paquette, 1958). Duplicate determinations were made with an induction salinometer. When values differed more than 0.02‰, the salinity was redetermined on the U.W. salinity bridge, and the mean of the salinity bridge determinations was reported. Oxygen concentrations were determined by the modified Winkler method (Thompson and Robinson, 1939). Inorganic PO₄-P was determined by the procedure of Robinson and Thompson (1948) as modified at the University of Washington. All thermometers had been calibrated at HL since April 1962. The reported temperatures are estimated to be accurate to $\pm 0.02^{\circ}\text{C}$. Application of corrections to protected and unprotected thermometer readings and computations of thermometric depths and L-Z values were performed with an IBM 7040 digital computer at the University of Hawaii Computing Center with a program written at HL. Depths were determined by the use of values from the L-Z curve for the actual depth. This procedure gave depth estimated to be within ± 10 m. down to 1,000 m. and within ± 1 percent below 1,000 m.

Sigma-t, specific volume anomaly, and the dynamic height were computed on the IBM 7040 computer by the program prepared at HL and based on equations given by LaFond (1951). The computer also was used to interpolate all

^{1/}All data not presented in this report are on file at the Bureau of Commercial Fisheries Biological Laboratory, Honolulu 96812.

^{2/}Trade names referred to in this publication do not imply endorsement of commercial products.

properties at standard depths by means of a subroutine furnished by the University of Washington Oceanography Department and based on the interpolation method outlined by Rattray (1962).

In the region of study, a sharp thermocline generally separates a surface mixed layer from the subsurface waters. Only infrequently do Nansen casts adequately define this configuration, with the result that the interpolation program provides inaccurate values for temperature. BT data were used to correct the temperature-depth curve in the thermocline and the isothermal layer. When necessary, a value of temperature was chosen from the corrected curve at standard depths in the mixed layer and upper thermocline and, with the corresponding salinity value from the T-S curve, was used with the Nansen cast data in the interpolation program. The resulting interpolated values were much nearer the actual oceanographic situation as implied by the BT trace.

To estimate the validity of values for the surface distribution charts, the surface bucket values of temperature and salinity were compared, for each cruise, with values from the surface Nansen bottles. For temperature, variation was fairly random so that the mean of the difference between the two values was well within the accuracy of the surface bucket thermometer. The root mean square value computed from the above differences was less than 0.2° C. The bucket salinity values, on the other hand, were consistently larger than the Nansen bottle values, most probably owing to salt contamination at the time of sampling. The mean of the differences was about 0.03 ‰ and the root mean square value was within 0.07 ‰ for each cruise.

PRESENTATION OF DATA

For each of the three cruises the original as well as derived data and section plots for the properties have been included.

Tables 1, 2, and 3 contain the oceanographic station data for cruises 4, 5, and 6, respectively. In addition to the position, date, and time at each station, weather and sea conditions in standard notation have been included in the heading of each station. The first five columns of each station listing show the observed depth, temperature, salinity, oxygen, and phosphate,^{3/} respectively; the next two columns contain calculated sigma-t and specific volume anomaly

for the observed data. The next three columns present the interpolated values of temperature and salinity at standard depths and the last three columns contain sigma-t and the specific volume anomaly calculated from the interpolated data and the anomaly of dynamic height summed from the surface. The error terms, defined by the Rattray interpolation technique, that exceeded 0.10 for temperature and 0.05 for salinity have been noted below the tabulation for each station. Interpolated and extrapolated values as well as irregularities in the original data are noted in these tables.

Temperature distribution sections along long. 148° W., 151° W., 154° W., and 157° W. based on the 270-m. BT's are included; so are the shorter zonal sections between stations 7 and 7A, 25 and 26, and 37 and 40. In addition, surface temperature and salinities are presented with each section. All the sections were plotted automatically by the model 566 Calcomp plotter with a program designed at HL. These seven BT sections are shown in figures 2 through 7 for cruise 4, figures 8 through 13 for cruise 5, and figures 14 through 19 for cruise 6.

The surface temperature distributions, based on bucket temperature at each BT cast, are shown in figures 20, 21, and 22 for cruises 4, 5, and 6, respectively.

The surface salinity distributions, based on bucket salinity samples at each BT cast, are shown in figures 23, 24, and 25 for cruises 4, 5, and 6, respectively.

The dynamic topography, relative to 1,200 m. for cruises 4, 5, and 6, is shown in figures 26, 27, and 28, respectively.

ACKNOWLEDGMENTS

The data for these cruises were processed by HL personnel under the direction of Mary Lynne Godfrey. Betty Ann L. Keala did the computer programing.

^{3/}Oxygen and phosphate data are available only for cruise 6. The columns in the tables for cruises 4 and 5 bear the oxygen and phosphate headings only to have a uniform format for this series of reports.

LITERATURE CITED

BARKLEY, RICHARD A., BERNARD M. ITO,
and ROBERT P. BROWN.

1964. Releases and recoveries of drift bottles and cards in the central Pacific. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 492, iii + 31 p.

LaFOND, EUGENE C.

1951. Processing oceanographic data. U.S. Navy Hydrographic Office Publ. 614, 114 p.

PAQUETTE, ROBERT G.

1958. A modification of the Wenner-Smith-Soule salinity bridge for the determina-

tion of salinity in sea water. Dep. Oceanogr. Univ. Wash., Tech. Rep. 61, 57 p.

RATTRAY, MAURICE, JR.

1962. Interpolation errors and oceanographic sampling. Deep-Sea Res. 9: 25-37.

ROBINSON, REX J., and THOMAS G. THOMPSON.

1948. The determination of phosphates in sea water. J. Mar. Res. 7: 33-41.

THOMPSON, THOMAS G., and REX J. ROBINSON.

1939. Notes on the determination of dissolved oxygen in sea water. J. Mar. Res. 2: 1-8.

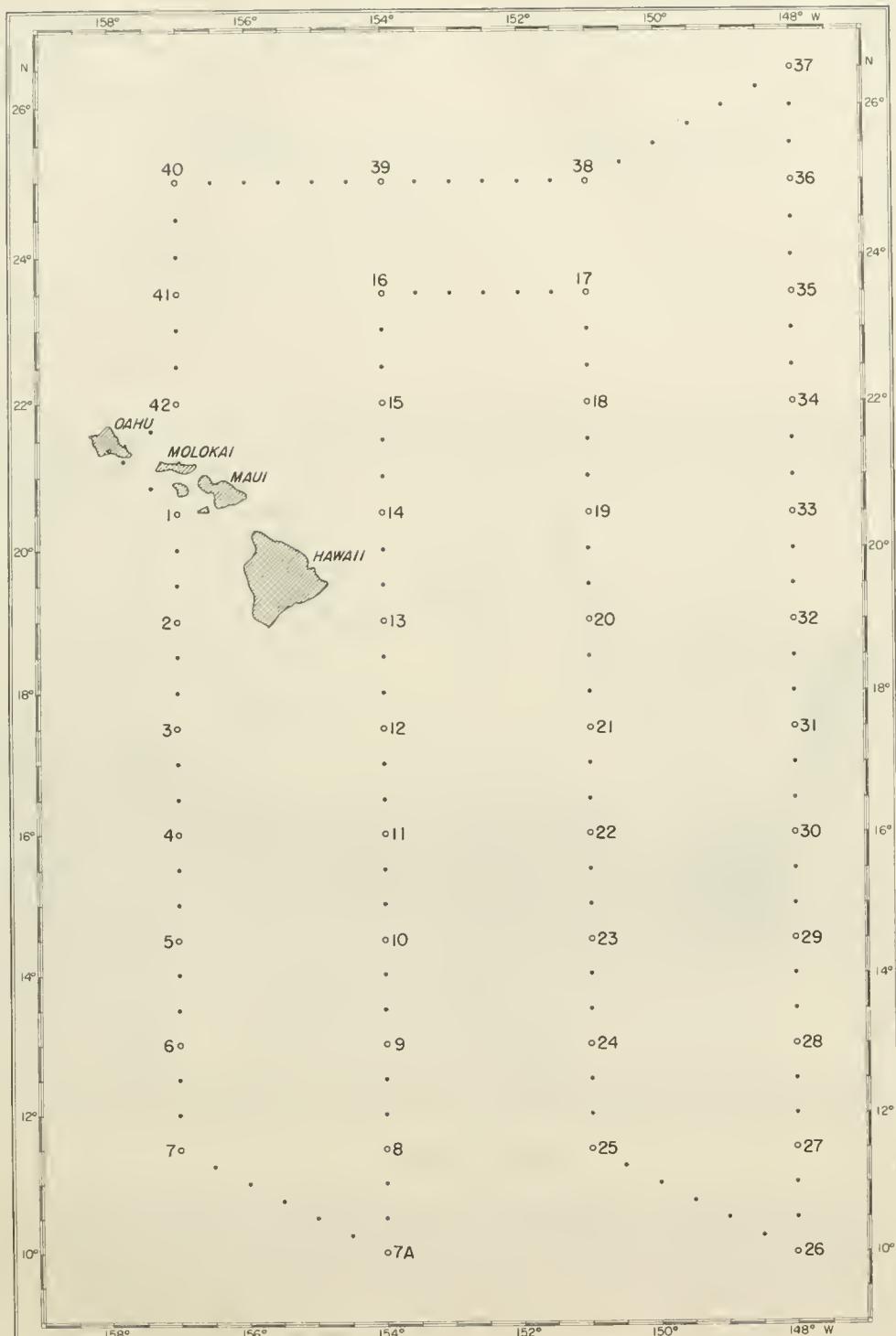


Figure 1.--Track chart for Townsend Cromwell cruises 4, 5, and 6. The large, numbered dots indicate the locations at which both hydrographic and BT (bathythermograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

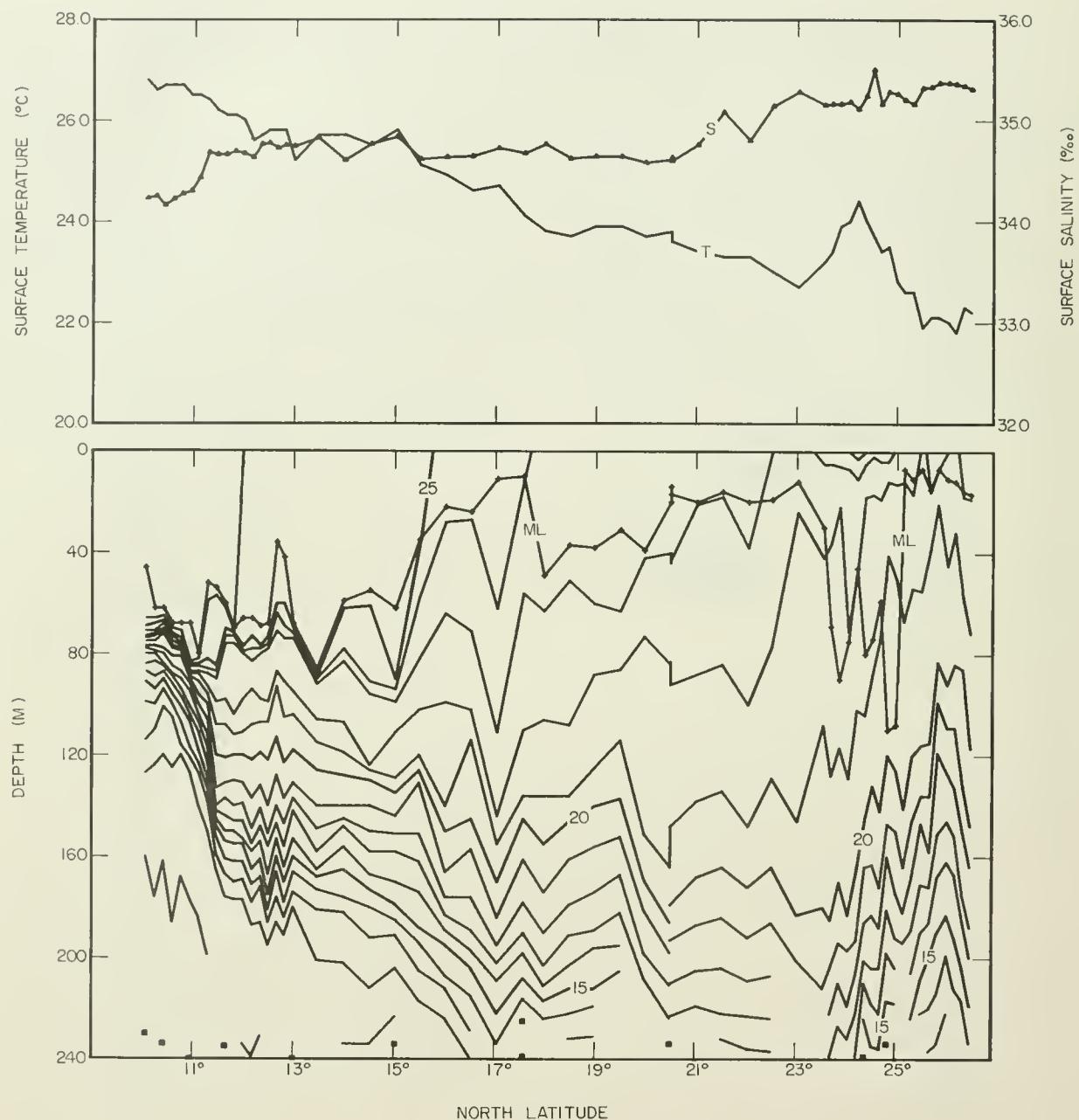


Figure 2.--Surface temperatures ($^{\circ}\text{C}$) and salinities (‰) (upper panel) and BT temperature ($^{\circ}\text{C}$) section (lower panel) for Townsend Cromwell cruise 4 along long. 148°W . The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

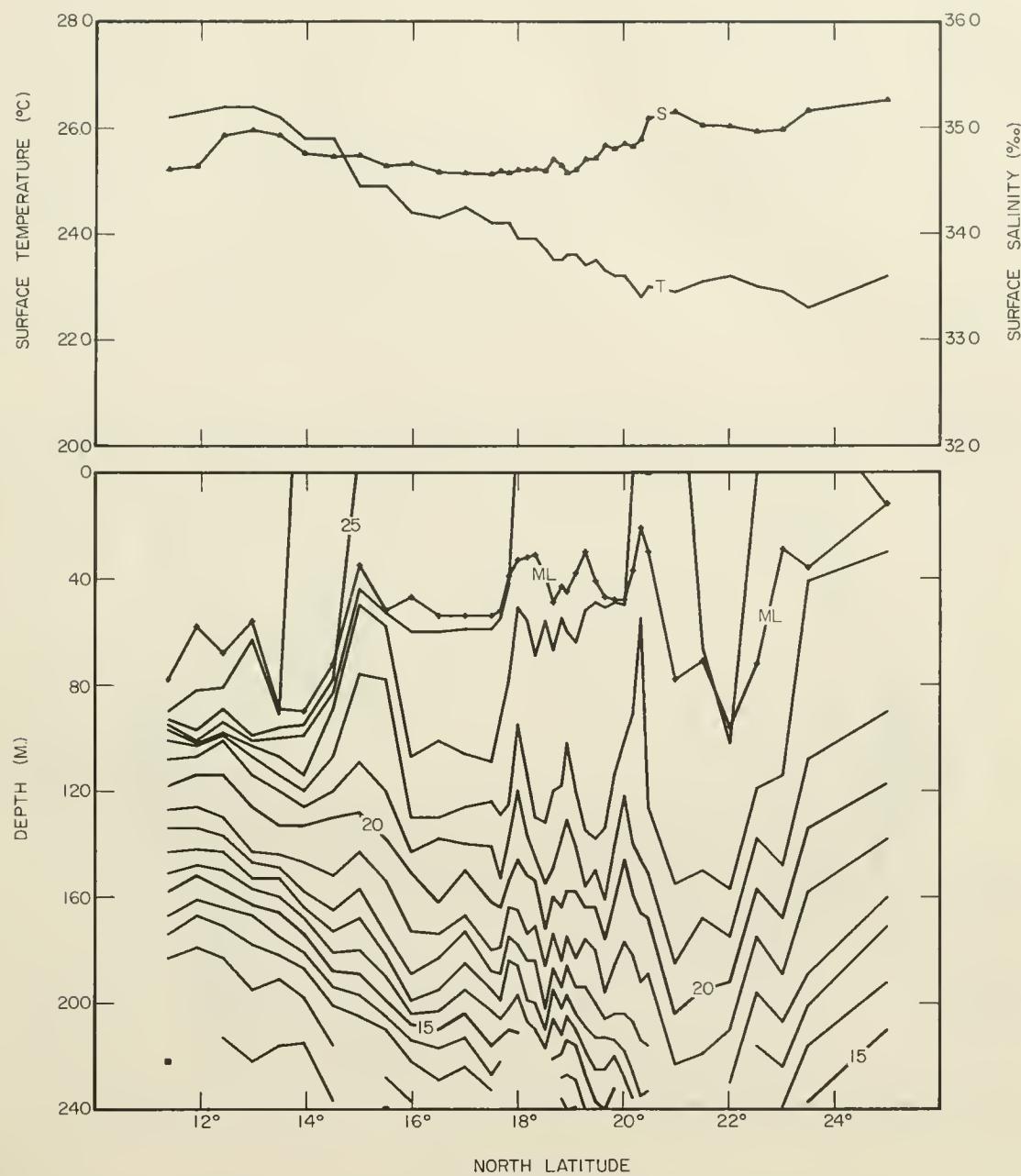


Figure 3.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}/\text{oo}$) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

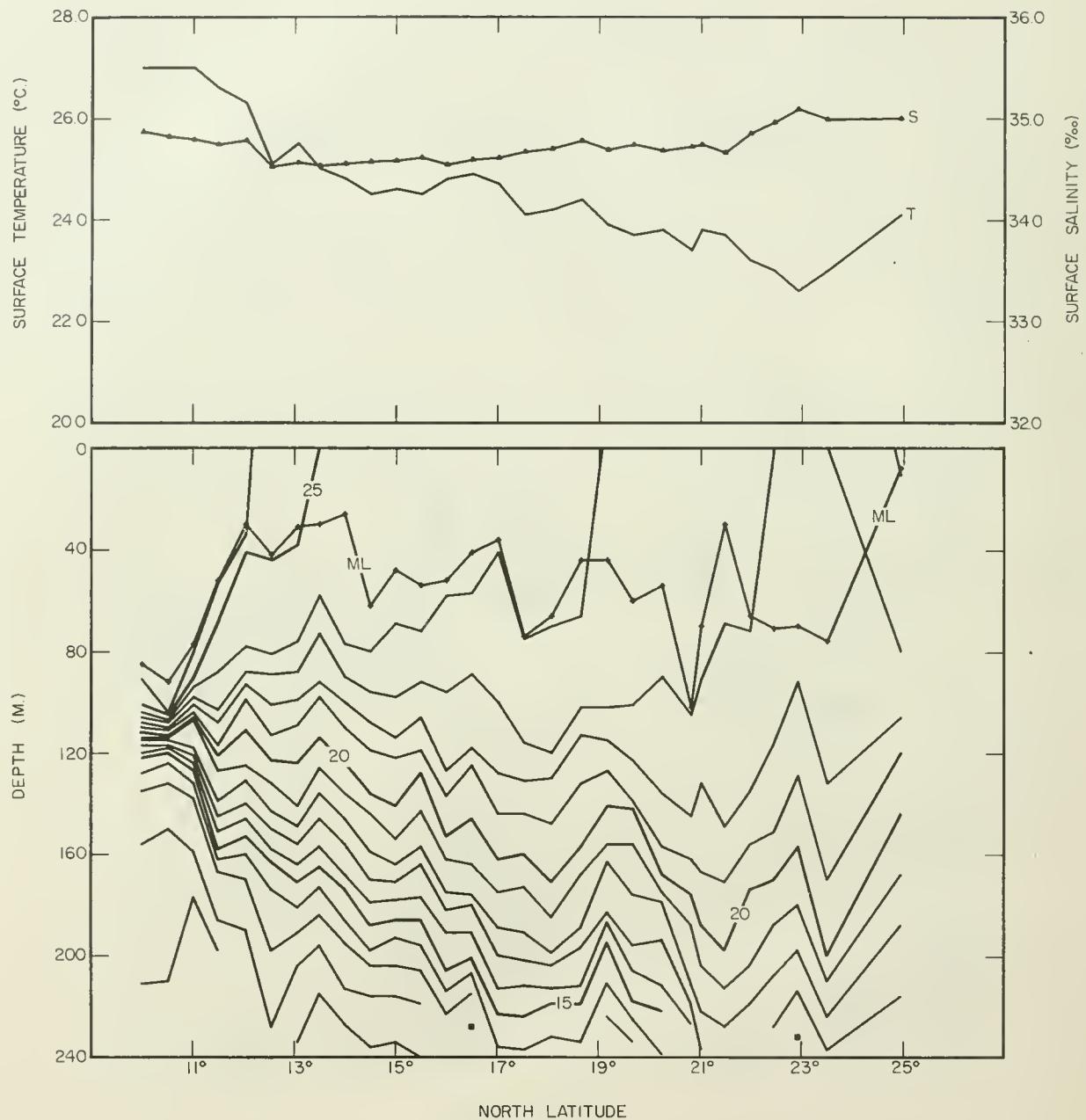


Figure 4.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

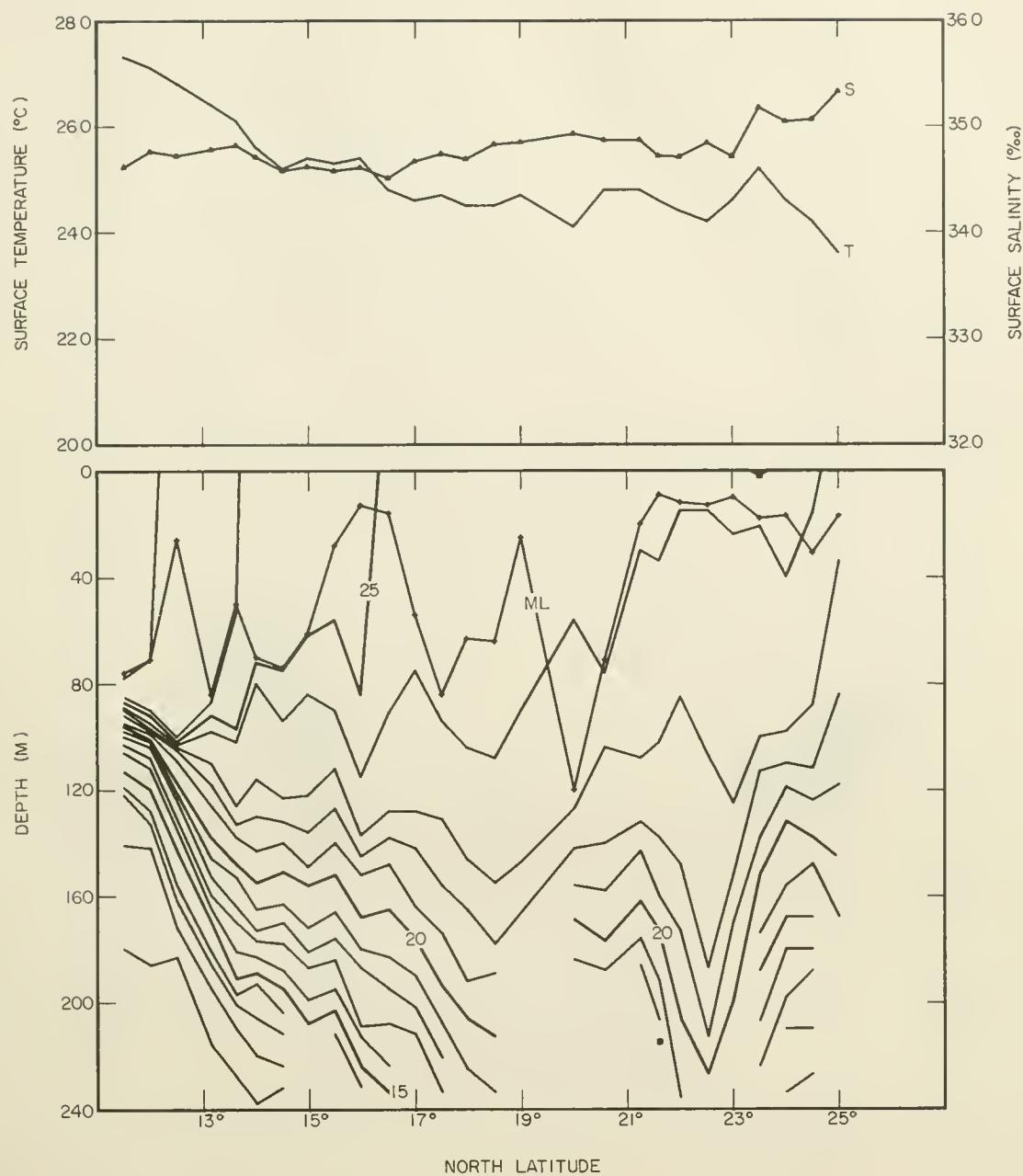


Figure 5.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}/oo$) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

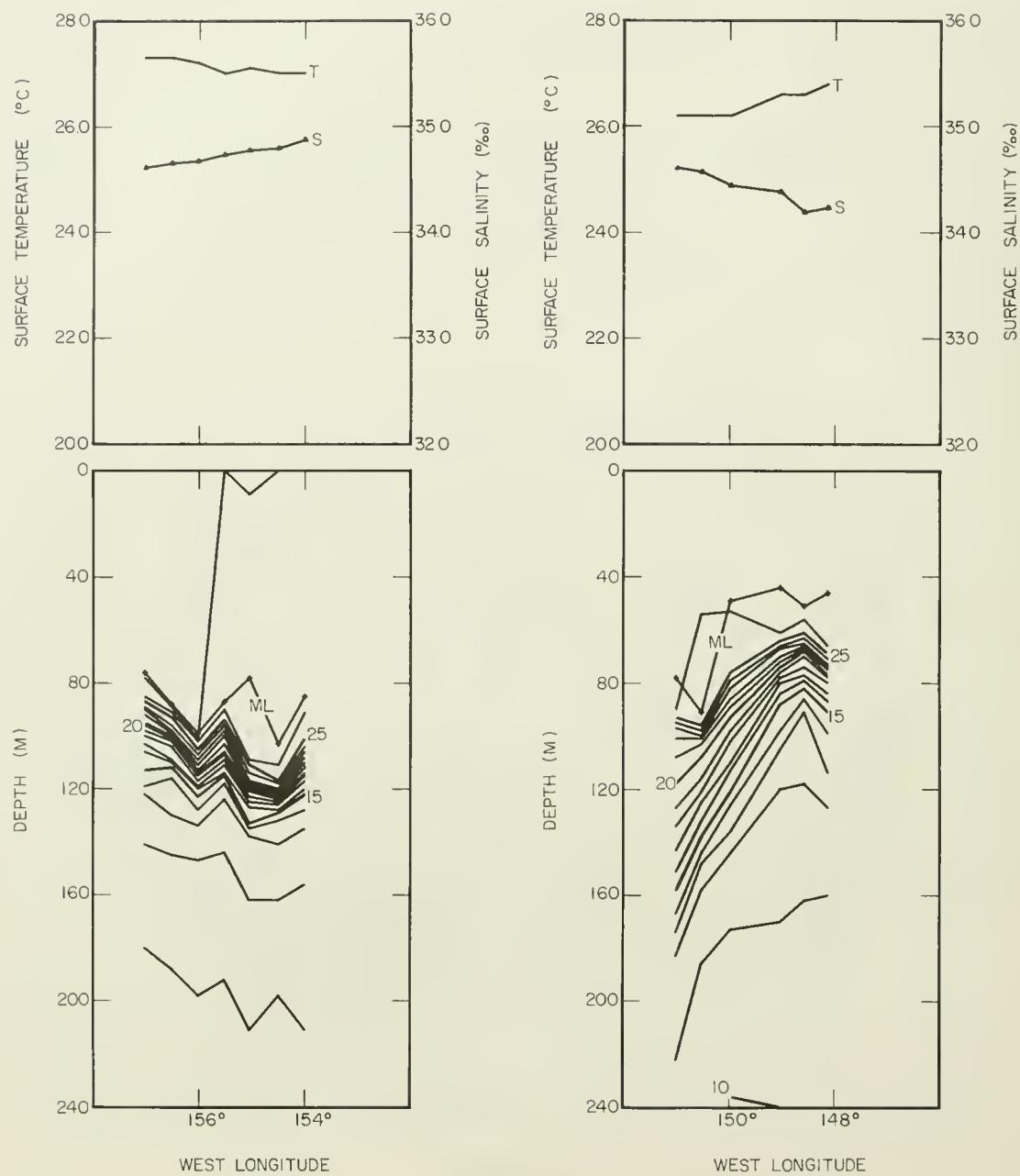


Figure 6.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

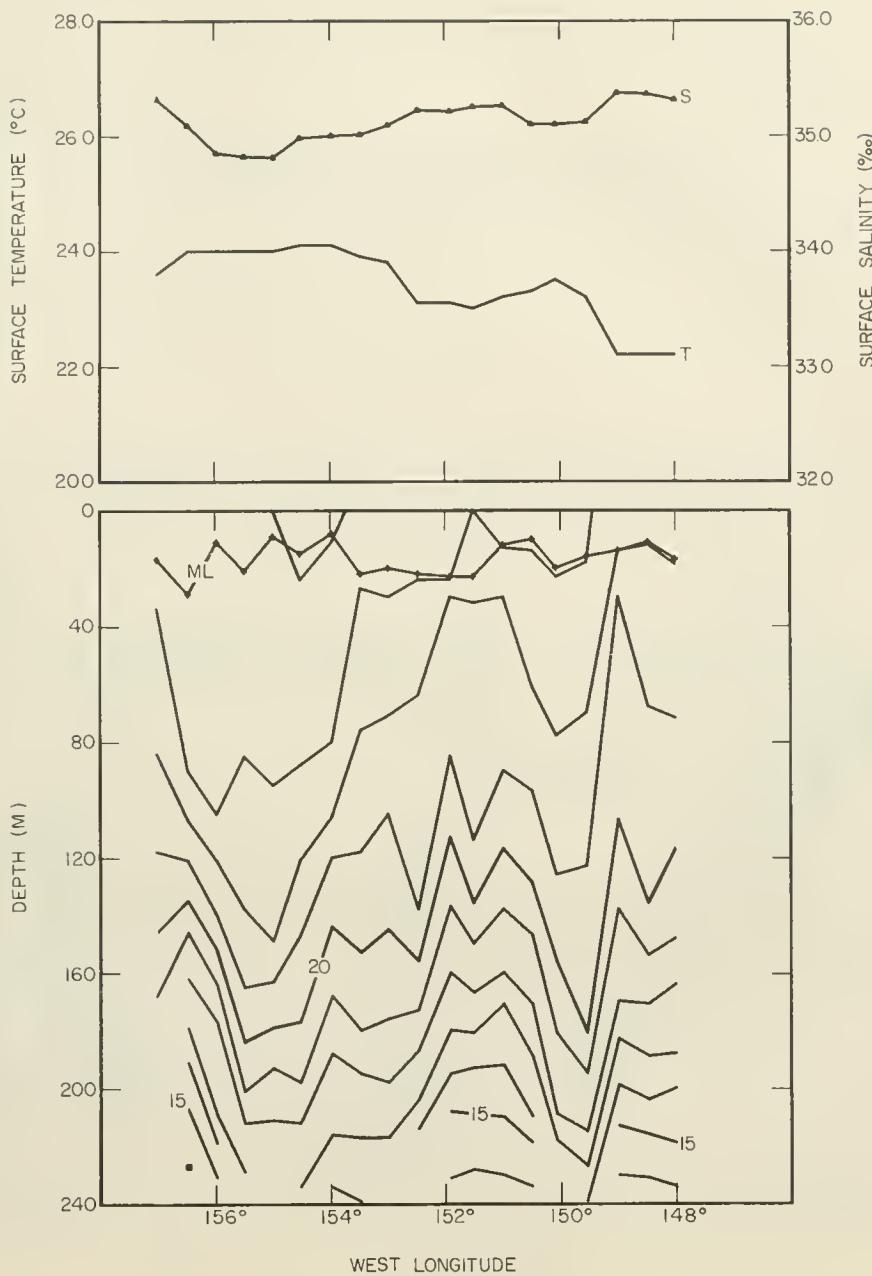


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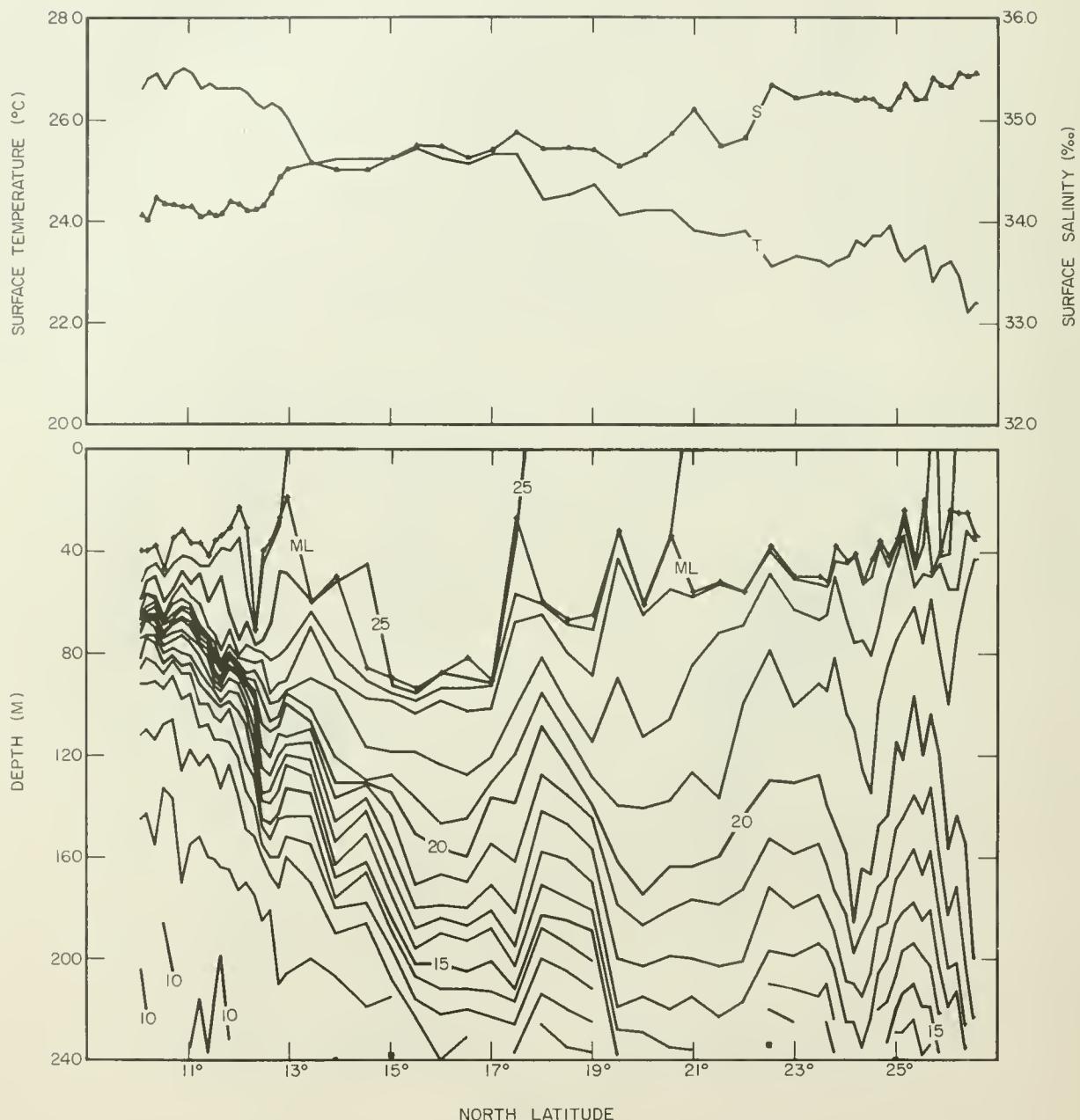


Figure 8.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 5 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

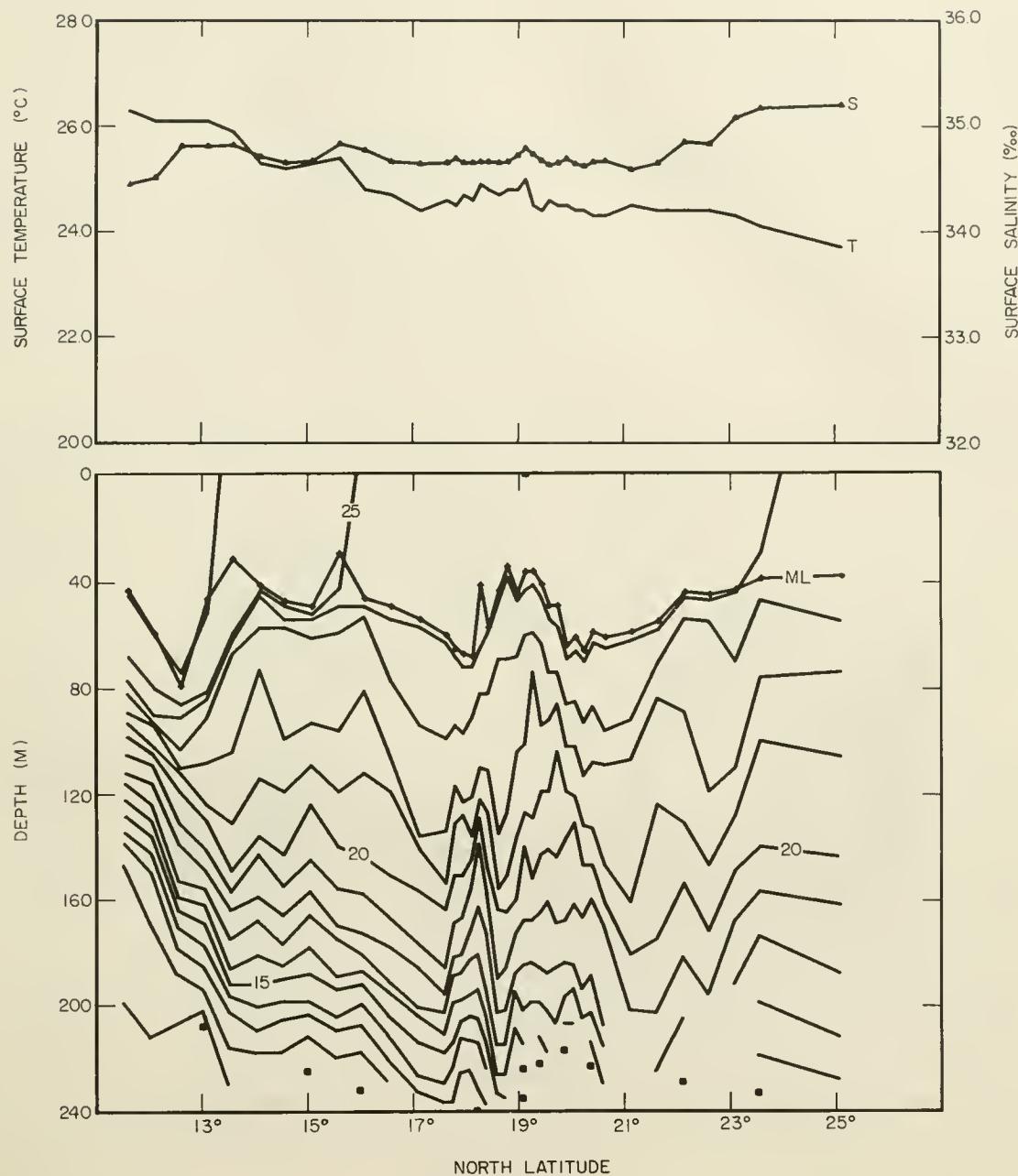


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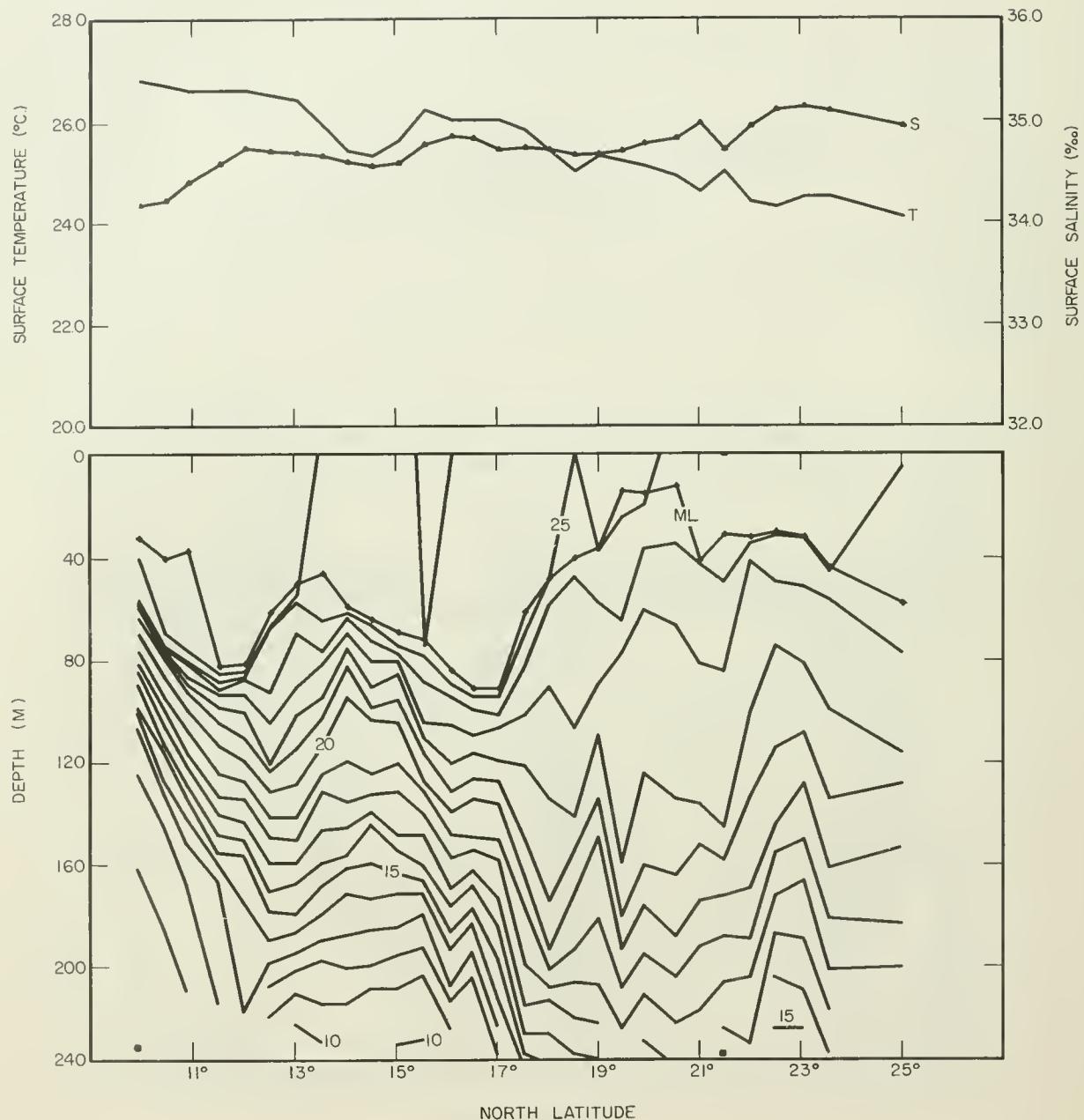


Figure 10.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 5 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

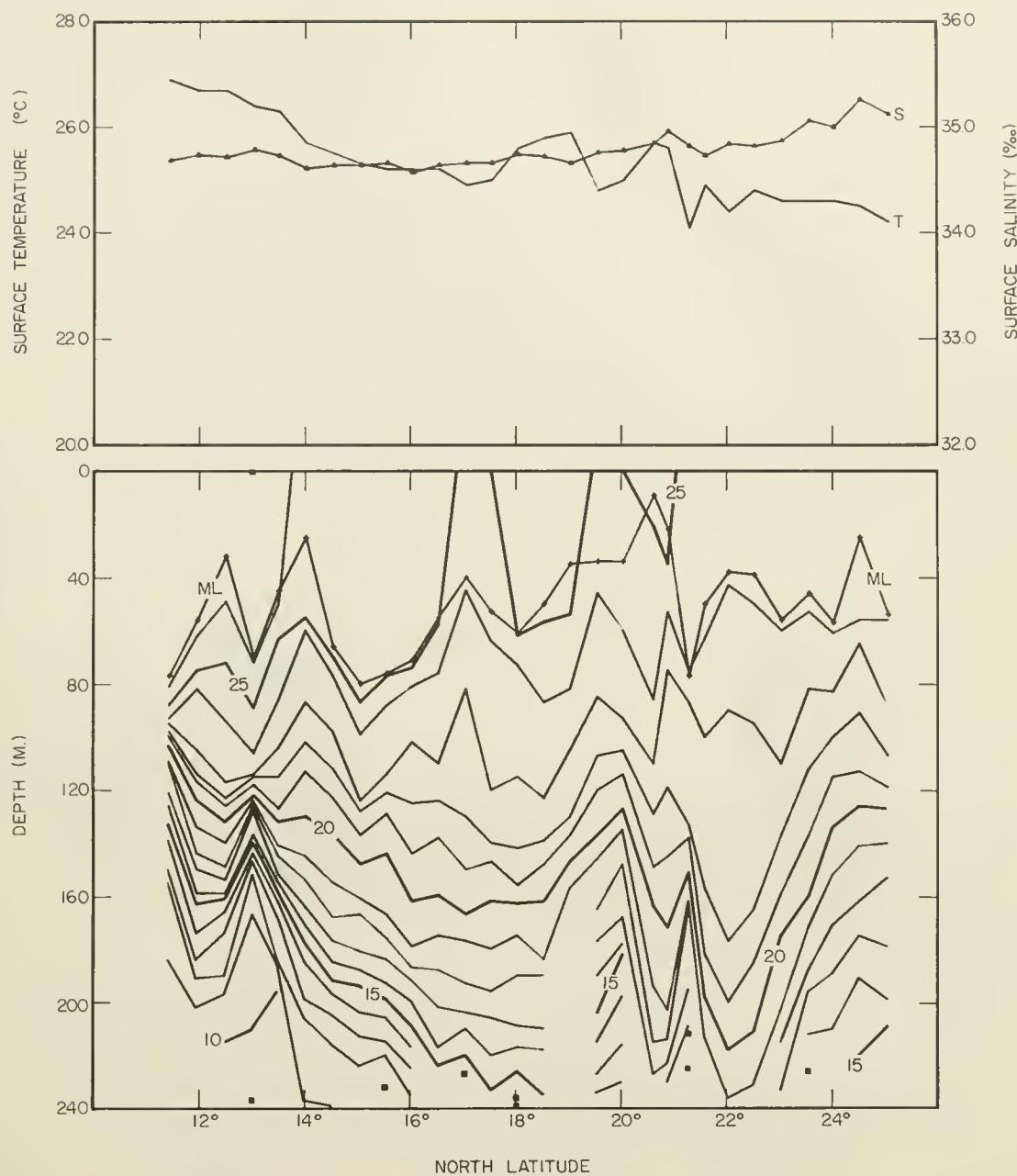


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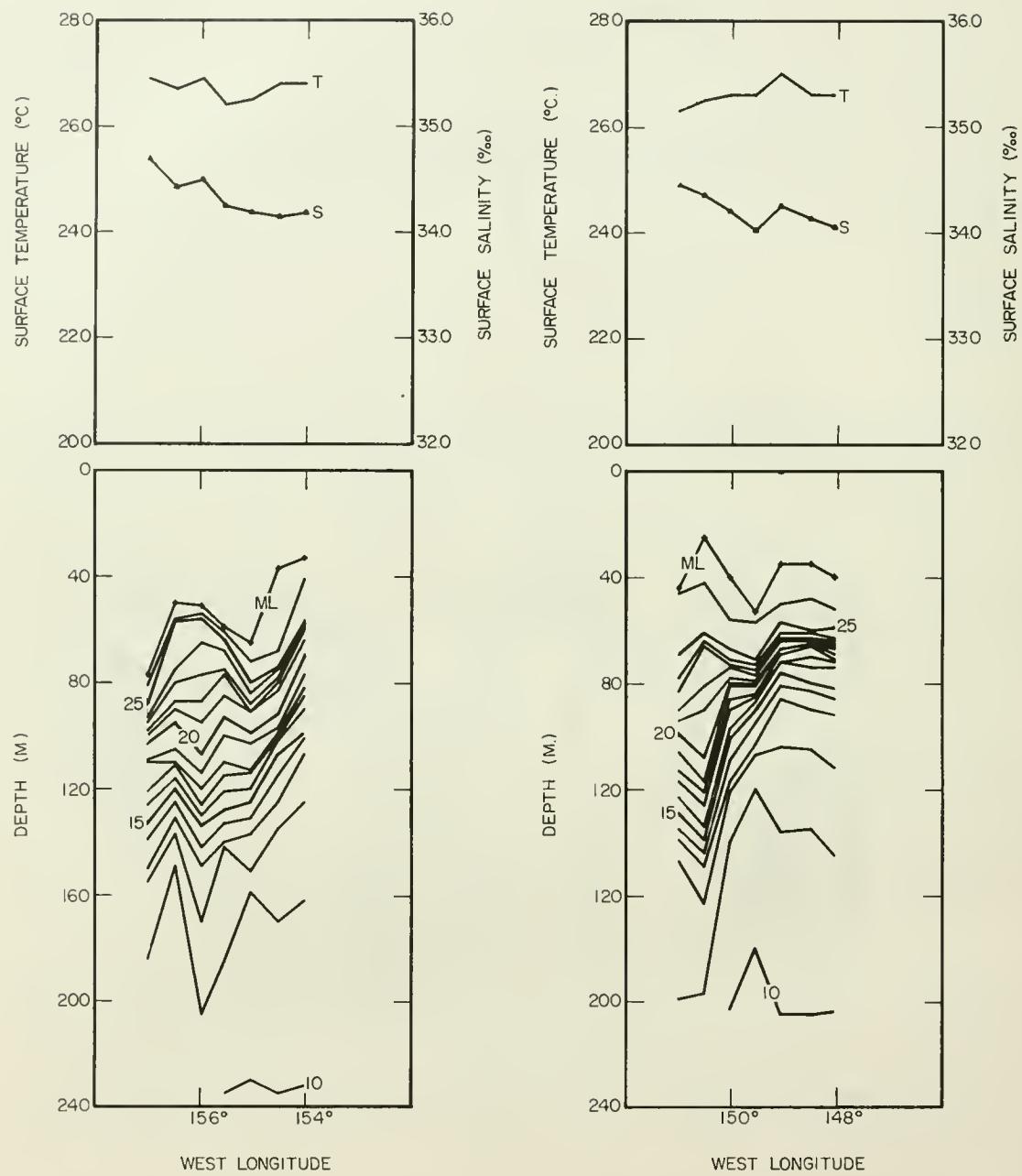


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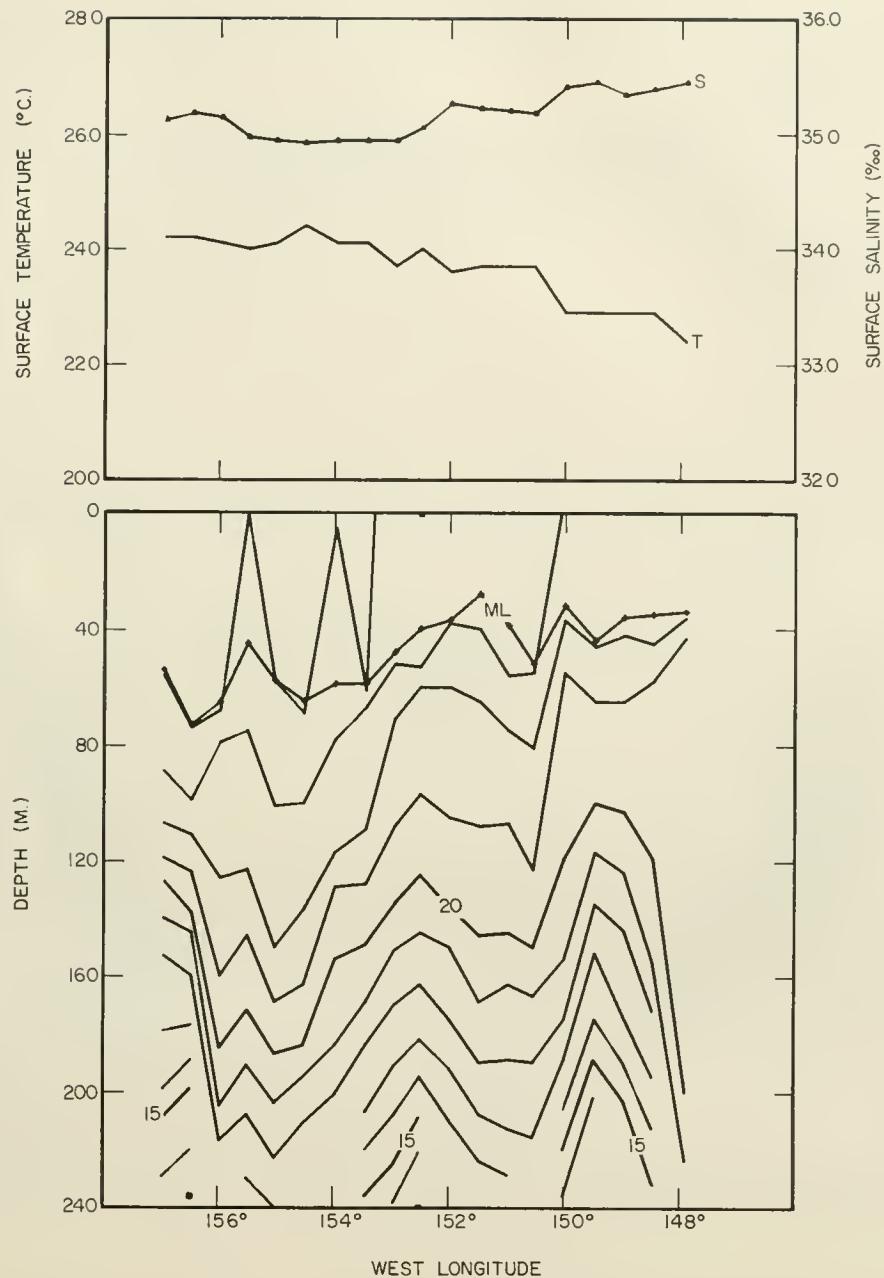


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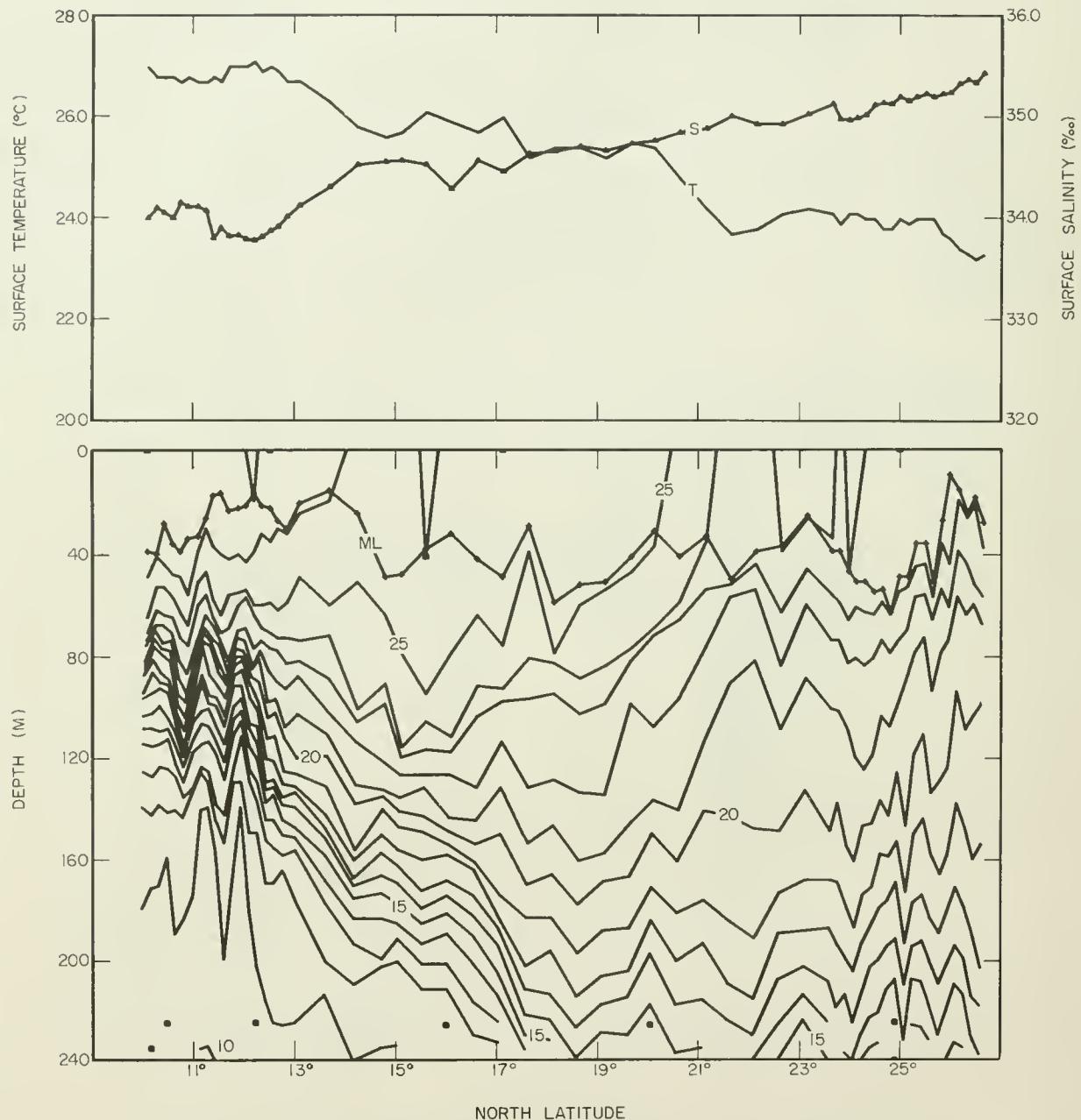


Figure 14.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}/oo$) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 6 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

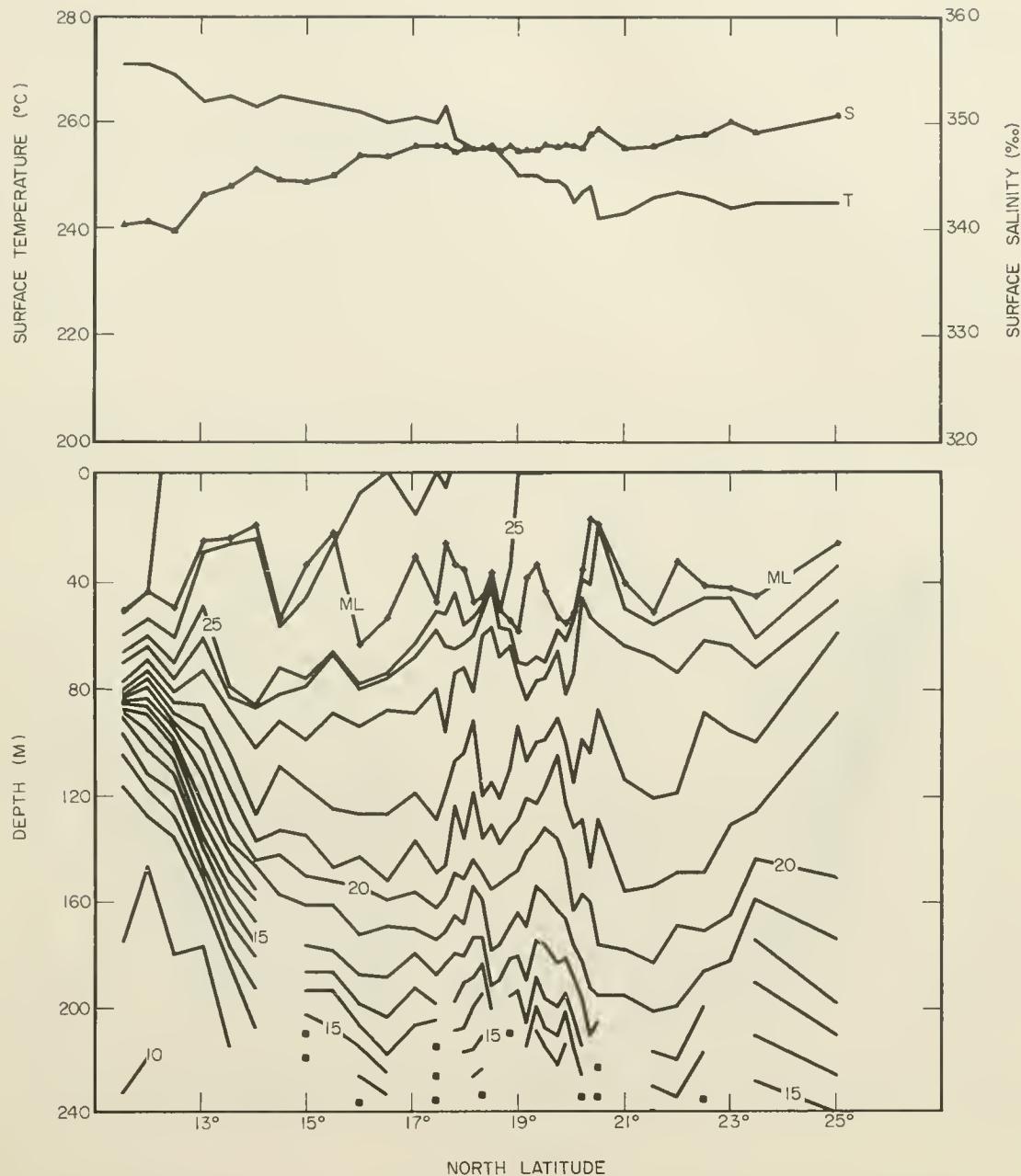


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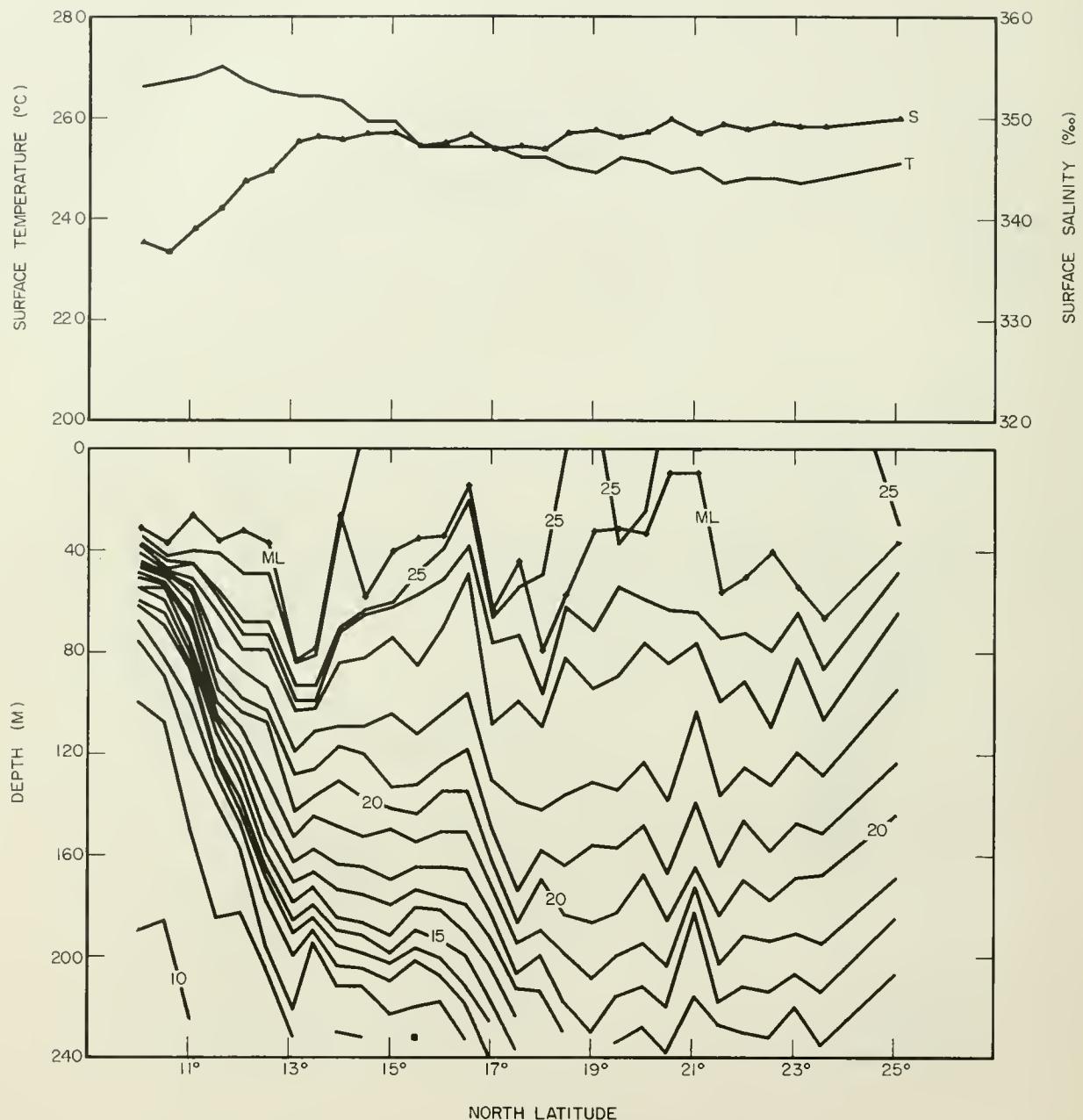


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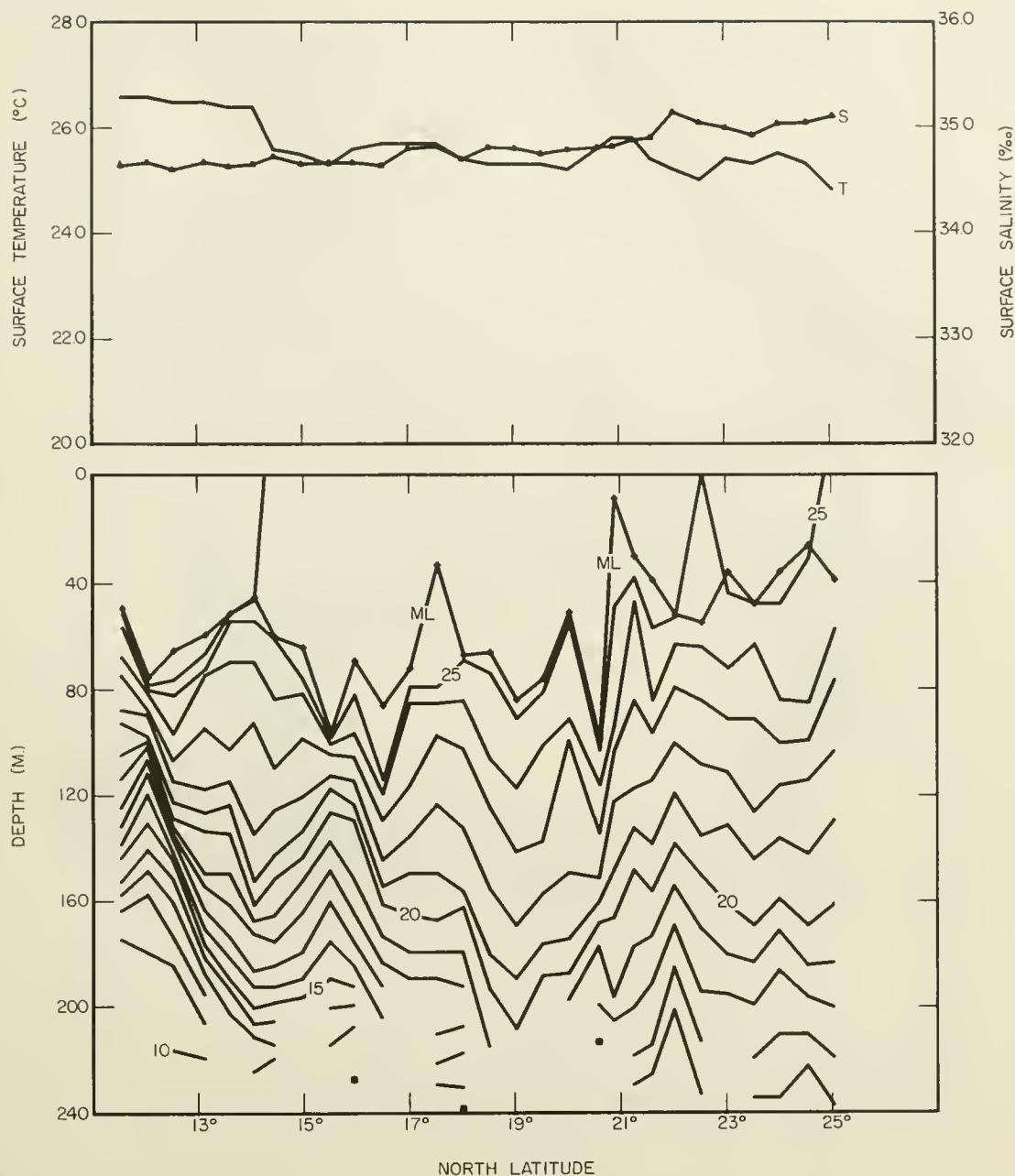


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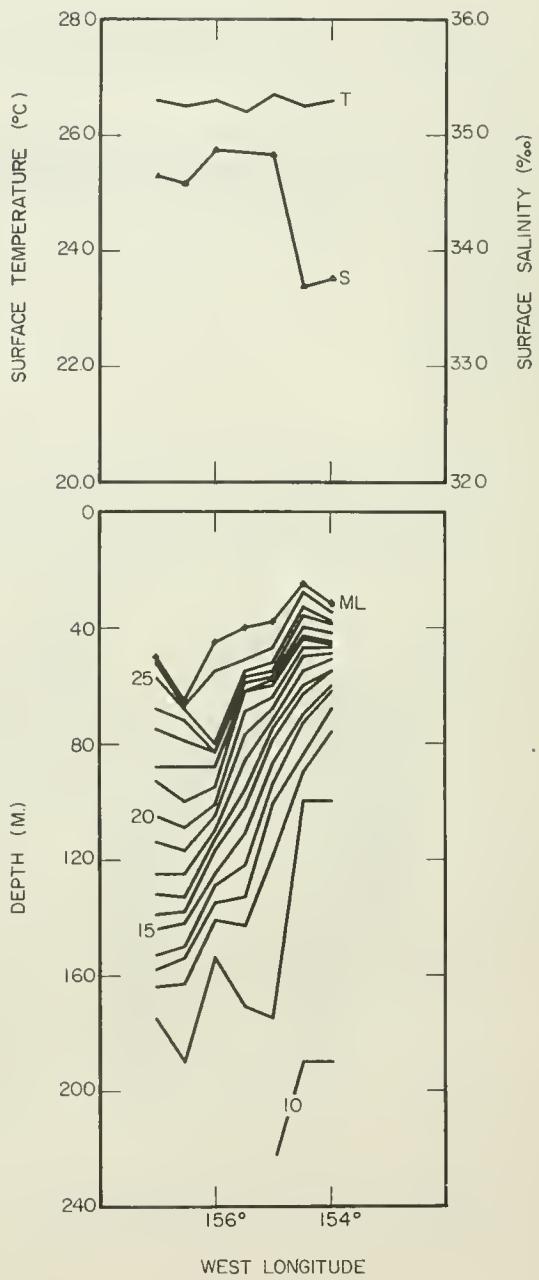
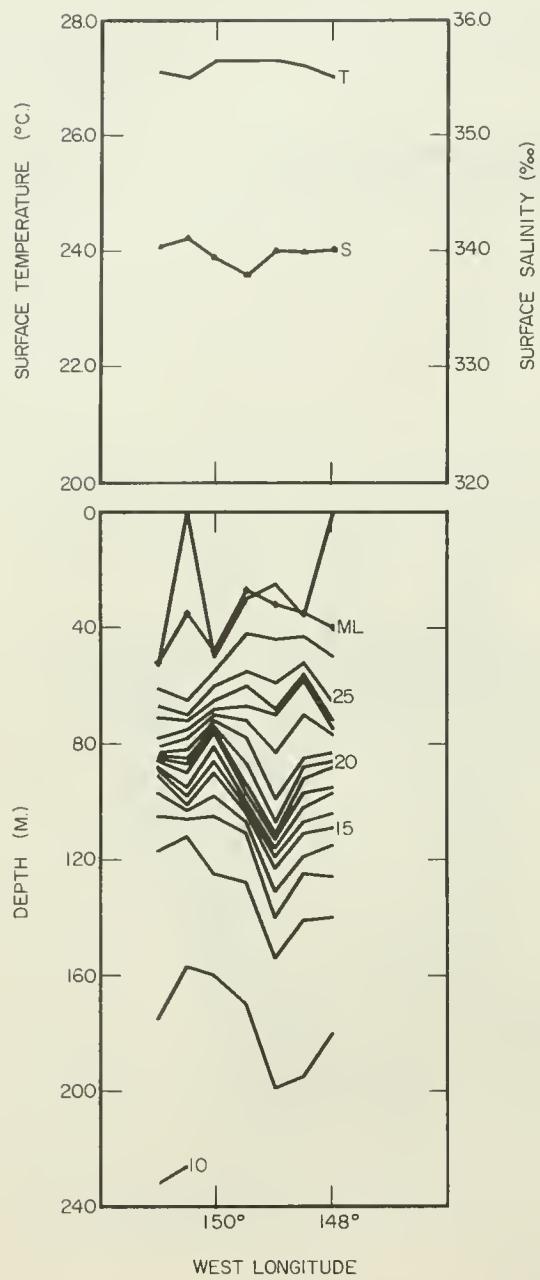


Figure 18.--Surface temperatures ($^{\circ}\text{ C.}$) and salinities ($^{\circ}/\text{o}$) (upper panel) and zonal BT temperature ($^{\circ}\text{ C.}$) section (lower panel) for Townsend Cromwell cruise 6 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

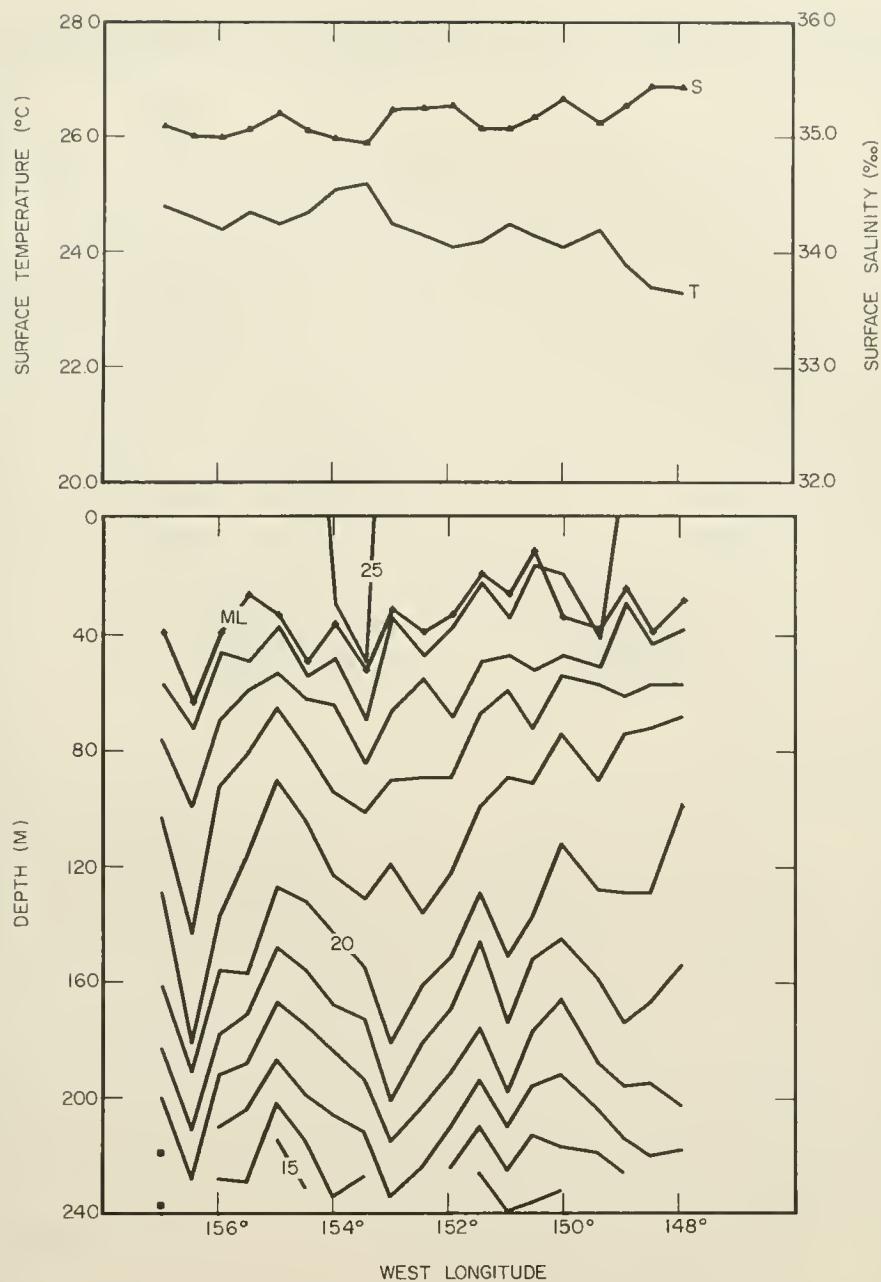


Figure 19.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 6 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

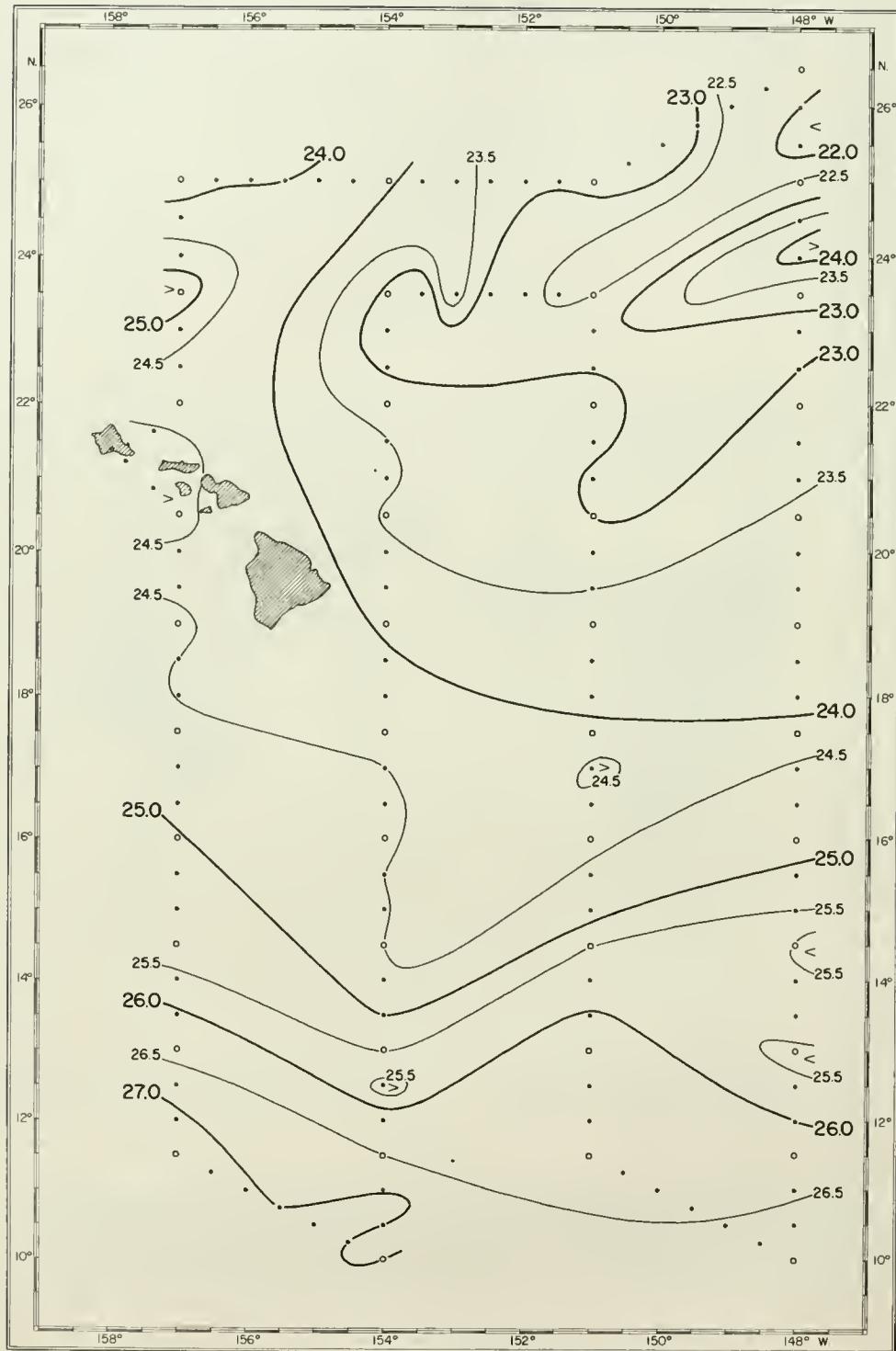


Figure 20.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 4.

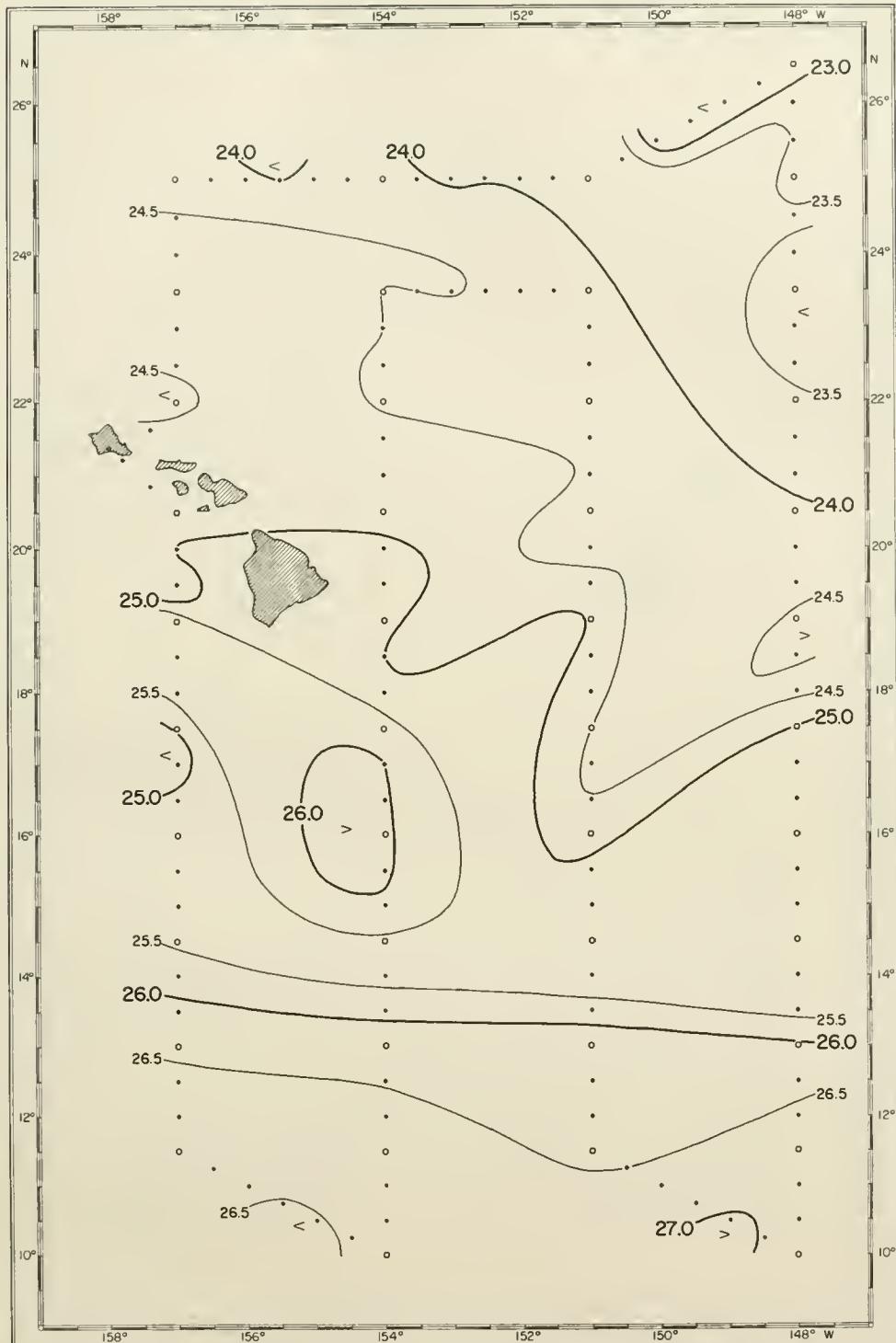


Figure 21.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 5.

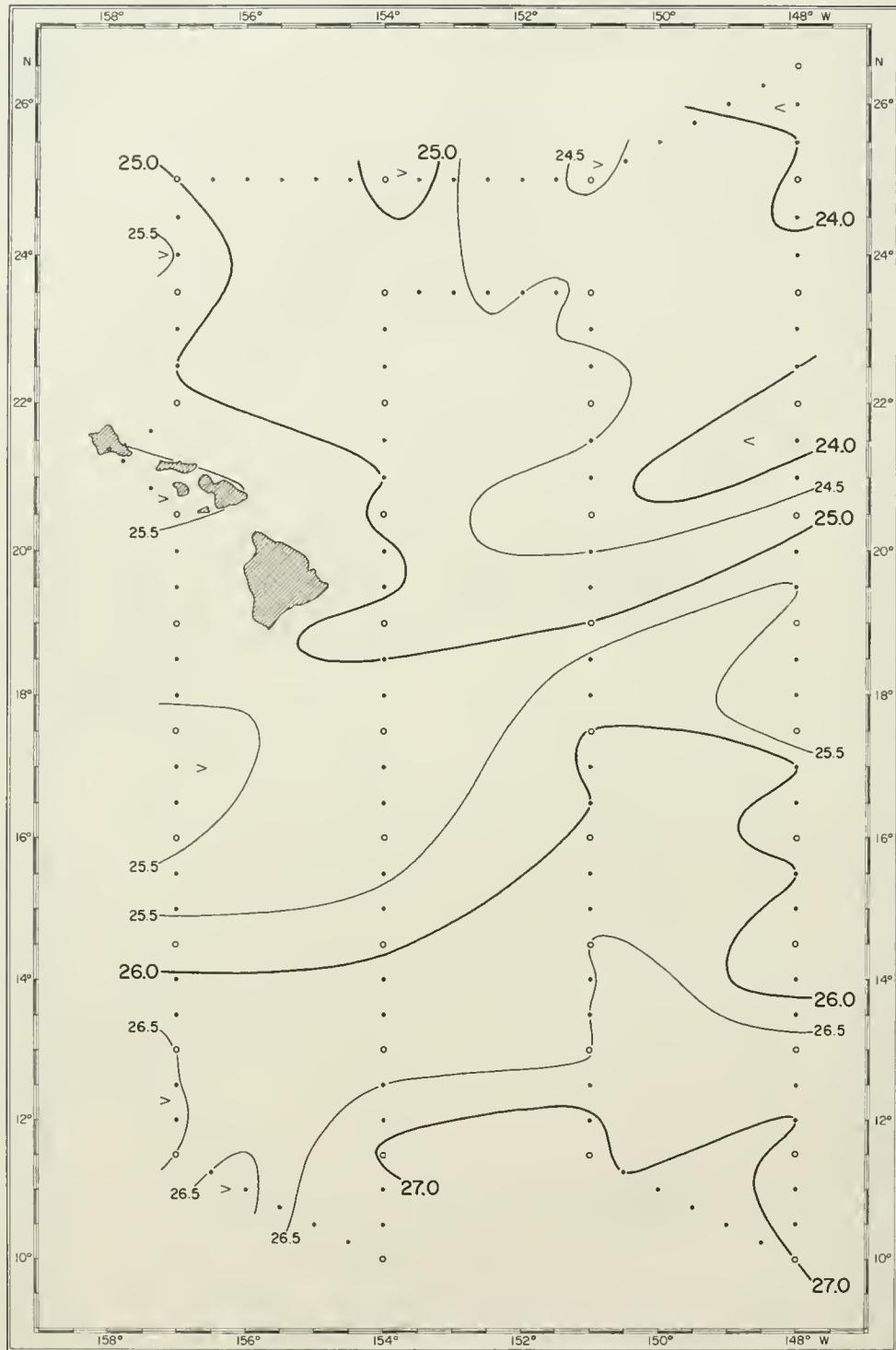


Figure 22.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 6.

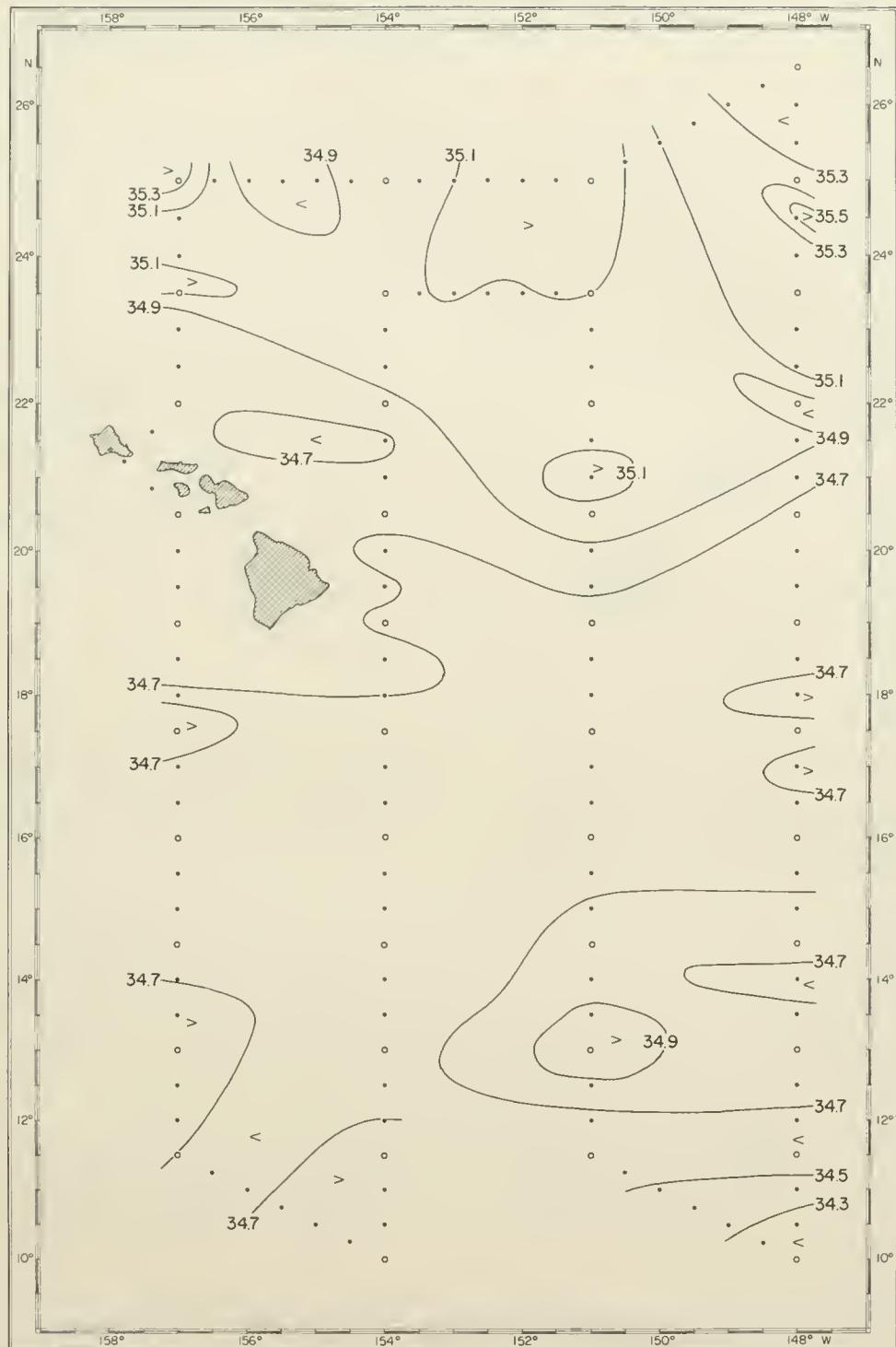


Figure 23.--Surface salinity distribution ($^{\circ}/oo$) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 4.

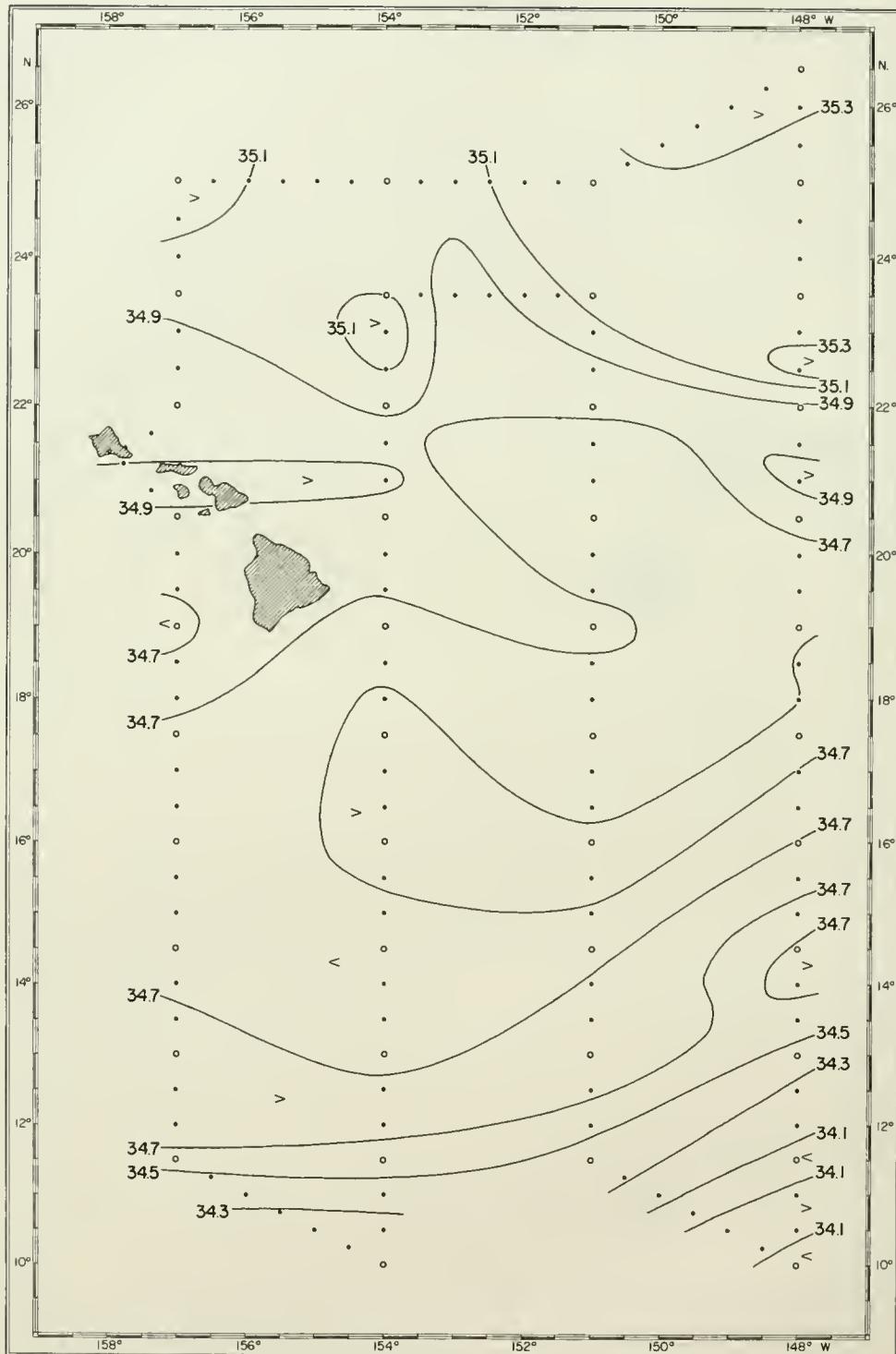


Figure 24.--Surface salinity distribution ($^{\circ}/\text{oo}$) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 5.

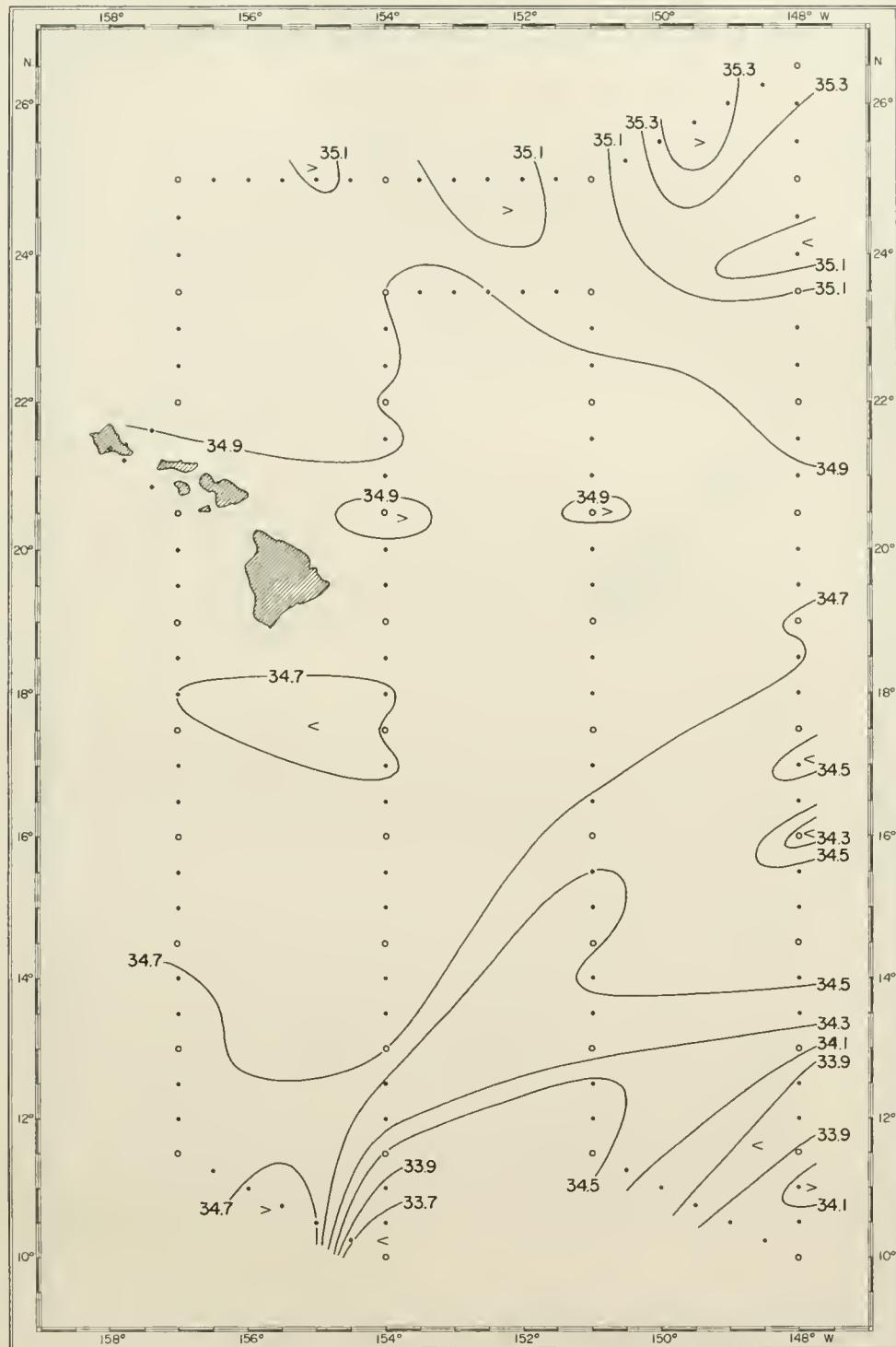


Figure 25.--Surface salinity distribution ($^{\circ}/\text{oo}$) from bucket salinity samples at each ET cast for Townsend Cromwell cruise 6.

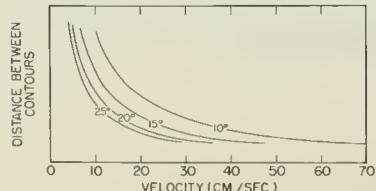
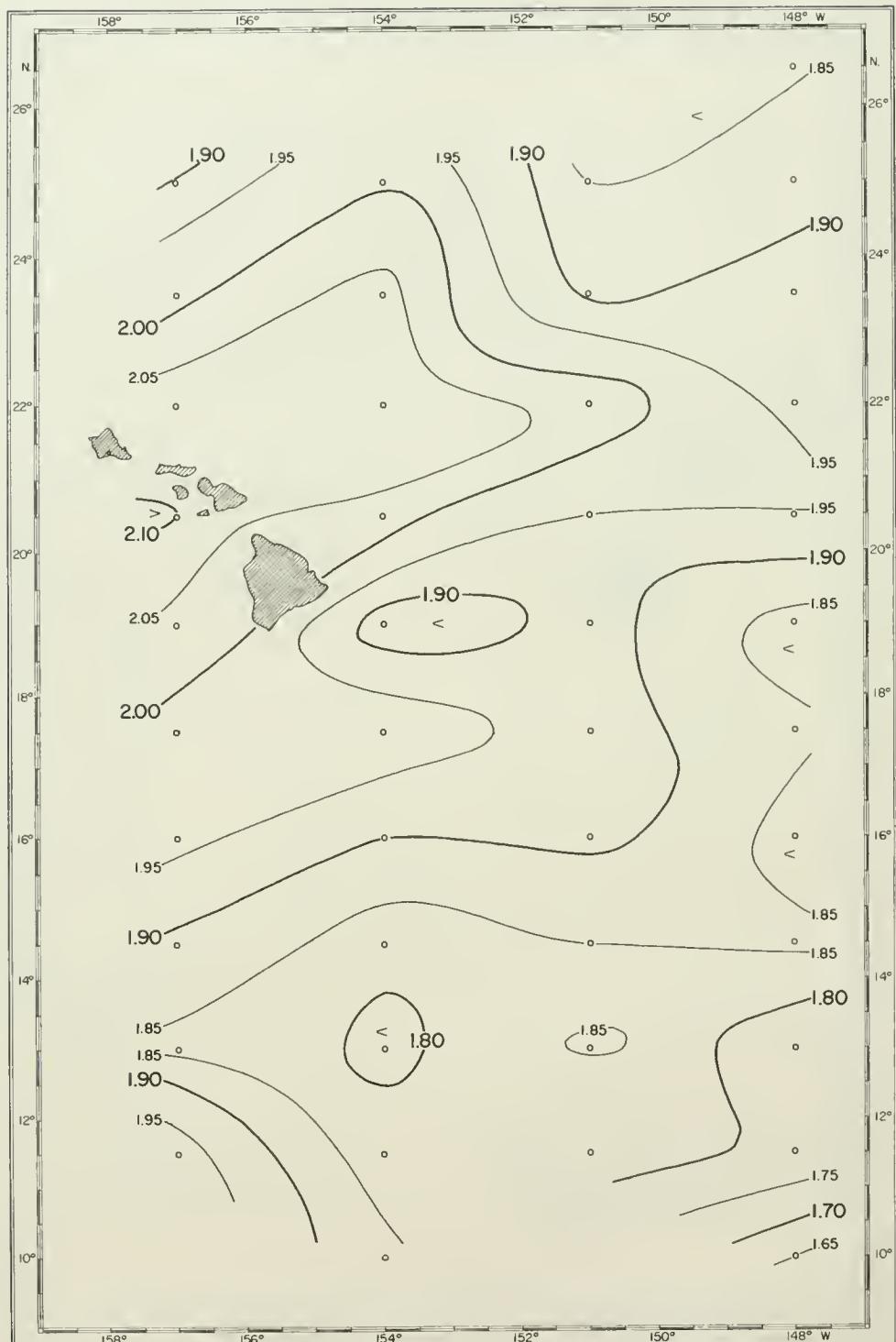


Figure 26.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 4.

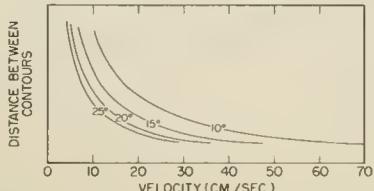
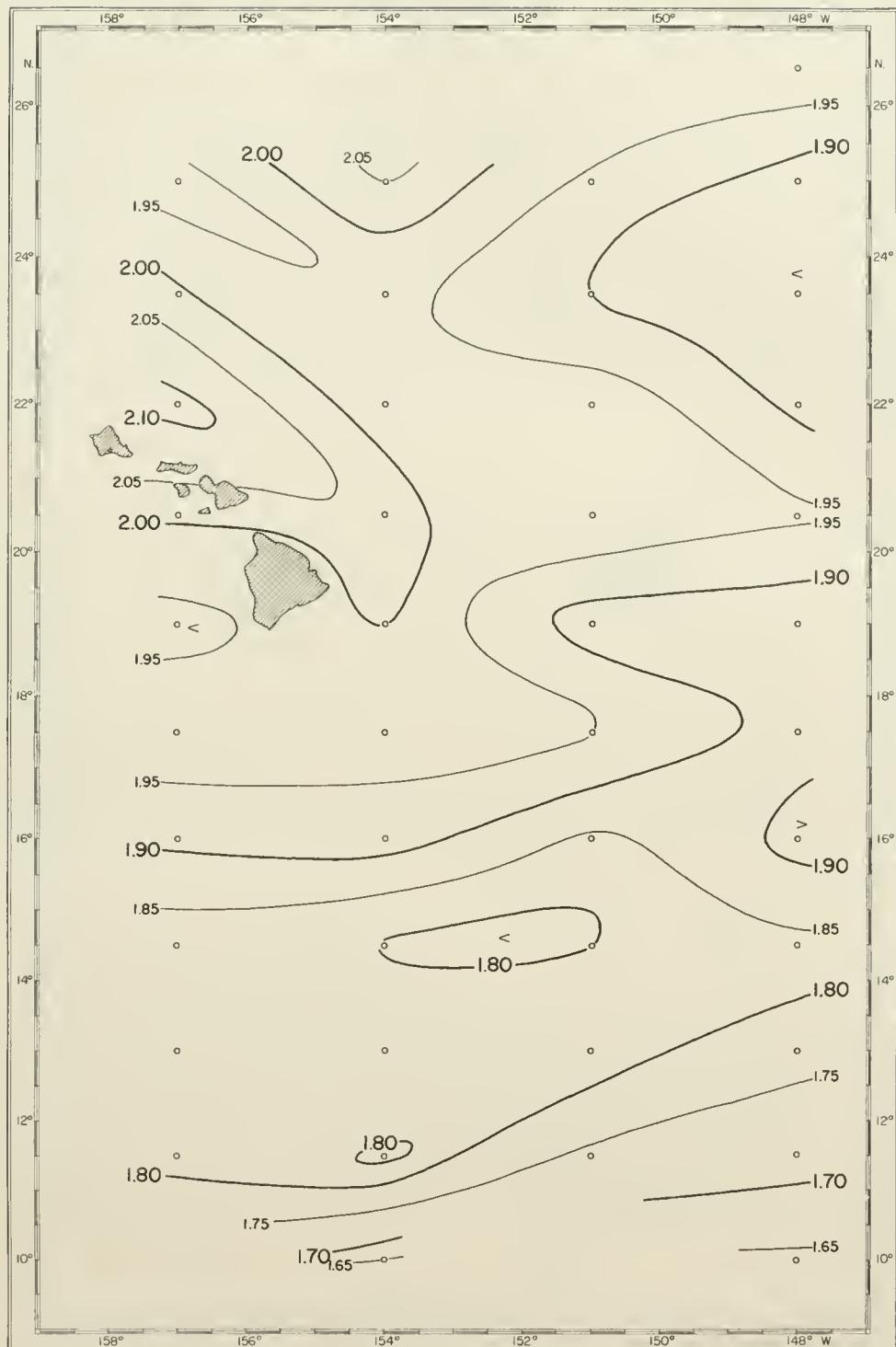


Figure 27.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 5.

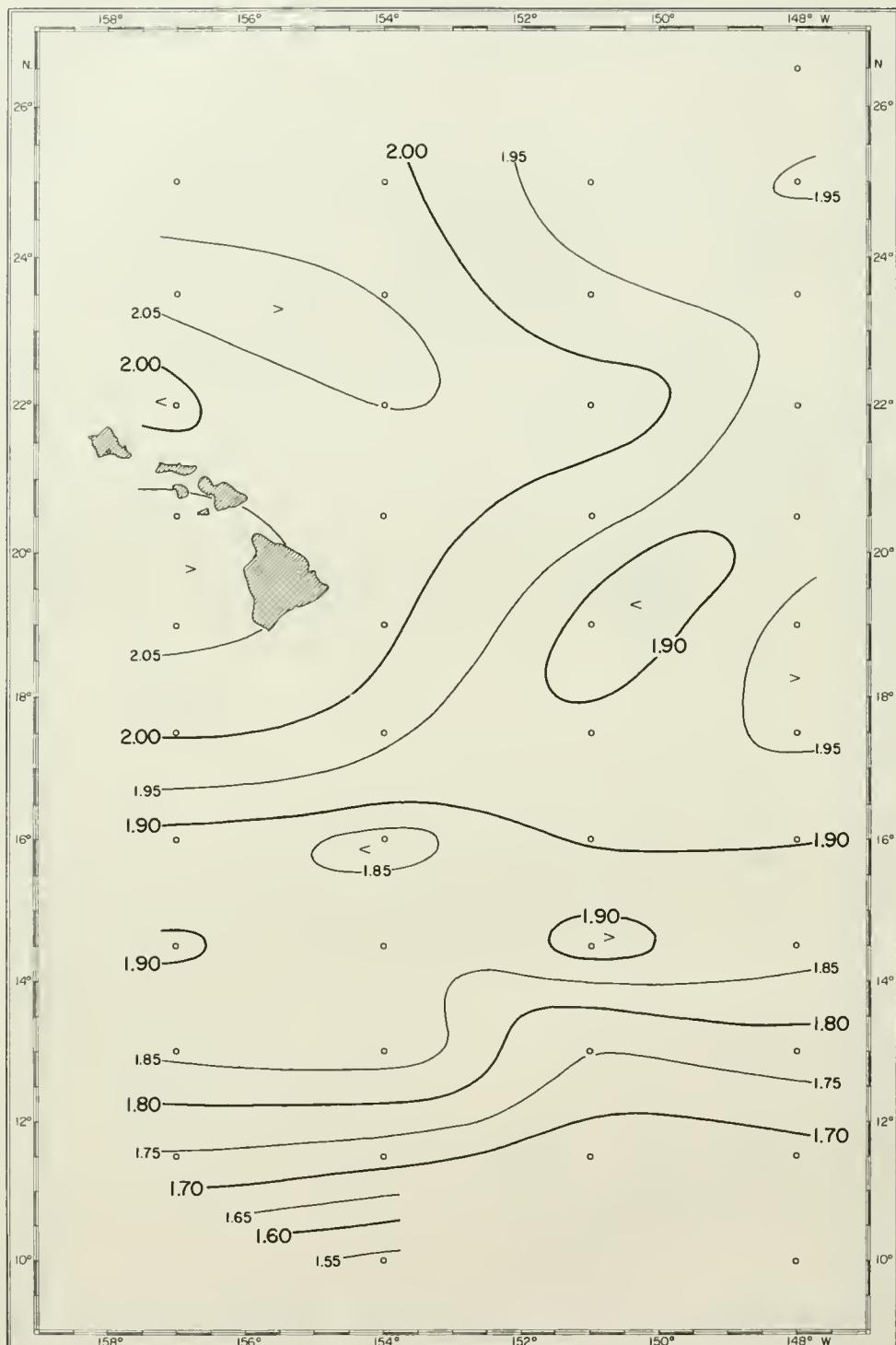
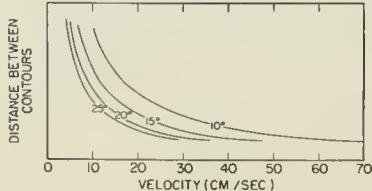


Figure 28.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 6.



TABLES

Information printed in the station heading has the following units or coding. Latitude and longitude are in degrees and minutes. Wet and dry bulb temperatures are in degrees Celsius. Wind speed is in knots. Barometric pressure is in tens and units of millibars (initial 9 or 10 omitted). Wind direction, weather, visibility, cloud type, and cloud cover are coded in the manner described by the International Ship Weather Code.

The observed data are presented in the following units: Depth in meters; temperature in degrees Celsius; salinity in grams per kilogram; oxygen in milliliters per liter; and phosphate ($\text{PO}_4\text{-P}$) in microgram-atoms per liter.

The derived data are listed with the following units: Density anomaly as sigma-t; specific volume anomaly (delta) in 10^5 cubic centimeters per gram; and dynamic depth anomaly (dyn. dpth.) in dynamic meters.

Table 1.--Original and derived oceanographic data for Townsend Cromwell cruise 4

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA					
CROMWELL		4, STATION 1, 20-35N LAT, 157-15W LONG, MAY 17, 1964, 2400 G.C.T.													
DRY BULB 25.7		WET BULB 19.8		WIND SPEED 03, DIR. 08		BAR. 16		WEATHER 02		VIS. 8		CLOUD TYPE 7, COVER 4			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OXY-DOPTH.			
0.	25.12	34.84			23.21	467.8	0.	25.12	34.84	23.21	467.8	0.000			
9.0	24.80	34.85			23.31	458.2	10.	24.79	34.85	23.31	457.8	0.067			
30.0	24.75	34.85			23.32	457.6	20.	24.71	34.85	23.34	455.9	0.093			
49.0	24.71	34.84			23.33	457.9	30.	24.75	34.85	23.32	457.6	0.139			
73.0	24.34	35.10			23.64	429.5	50.	24.70	34.85	23.34	457.0	0.231			
96.0	23.43	35.09			23.90	405.4	75.	24.26	35.10	23.66	427.1	0.342			
119.0	23.00	35.10			24.03	393.7	100.	23.38	35.09	23.91	404.1	0.447			
143.0	21.27	35.08			24.50	349.5	150.	21.01	35.08	24.57	343.3	0.635			
166.0	20.29	35.04			24.73	327.9	200.	17.20	34.76	25.30	274.4	0.791			
180.0	18.98	34.95			25.01	302.2	250.	13.68	34.40	25.81	226.6	0.917			
211.0	16.30	34.65			25.43	262.5	300.	11.38	34.24	26.13	195.8	1.024			
236.0	14.60	34.47			25.67	239.7	400.	8.83	34.15	26.50	161.5	1.204			
259.0	13.13	34.36			25.89	218.8	500.	6.94	34.18	26.80	133.2	1.353			
282.0	12.03*	34.28			26.04	204.3	600.	5.74	34.26	27.02	112.1	1.477			
374.0	9.42*	34.16			26.41	169.8	700.	5.21	34.36	27.17	99.1	1.583			
468.0	7.50	34.16			26.71	141.9	800.	4.85	34.44	27.27	89.9	1.679			
561.0	6.05	34.22			26.95	118.7	1000.	4.11	34.51	27.40	77.7	1.868			
748.0	5.10	34.41			27.22	94.6	1200.	3.53	34.55	27.50	69.1	1.997			
935.0	4.29	34.49			27.37	80.6									
1122.0	3.81	34.53			27.45	73.4									
1406.0	3.04	34.57			27.56	63.3									

CROMWELL		4, STATION 2, 19- ON LAT, 157- OW LONG, MAY 17, 1964, 1100 G.C.T.													
DRY BULB 24.2		WET BULB 21.5		WIND SPEED 14, DIR. 05		BAR. 17		WEATHER 00		VIS. 8		CLOUD TYPE , COVER			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OXY-DOPTH.			
0.	24.64	34.72			23.26	462.6	0.	24.64	34.72	23.26	462.6	0.000			
5.	24.60	34.74			23.29	460.2	10.	24.54	34.75	23.31	457.9	0.046			
51.0	24.10	34.80			23.48	443.4	20.	24.41	34.76	23.36	453.7	0.092			
76.0	24.10	34.89			23.55	437.9	30.	24.30	34.78	23.40	450.0	0.138			
100.0	23.62	34.95			23.74	421.0	50.	24.11	34.80	23.48	443.7	0.228			
122.0	23.15	35.04			23.94	402.3	75.	24.10	34.89	23.55	438.2	0.339			
145.0	21.92	35.10			24.34	365.3	100.	23.62	34.95	23.74	421.0	0.447			
167.0	20.60	35.07			24.67	333.7	150.	21.60	35.10	24.42	357.1	0.643			
185.0	19.94	35.01			24.80	321.9	200.	18.94	34.93	25.00	303.2	0.810			
215.0	17.74	34.83			25.22	282.4	250.	15.20	34.56	25.61	246.2	0.948			
240.0	15.76	34.62			25.53	253.6	300.	11.69	34.22	26.06	203.1	1.061			
267.0	14.22	34.46			25.74	233.5	400.	8.55	34.15	26.55	156.9	1.243			
290.0	12.25	34.26			25.99	210.1	500.	6.65	34.23	26.89	124.9	1.385			
384.0	8.98	34.15			26.48	163.7	600.	5.80	34.33	27.07	107.9	1.503			
473.0	7.01	34.21			26.82	131.3	700.	5.28	34.40	27.19	97.0	1.606			
558.0	6.09	34.29			27.00	114.0	800.	4.89	34.45	27.27	89.8	1.701			
731.0	5.17	34.42			27.22	94.6	1000.	4.23	34.49	27.38	80.6	1.873			
904.0	4.52	34.47			27.33	84.6	1200.	3.64	34.52	27.47	72.5	2.028			
1076.0	4.02	34.50			27.41	77.8									
1338.0	3.28	34.54			27.51	67.9									

TEMPERATURE ERROR TERM AT 300. METERS IS 0.10

CROMWELL		4, STATION 3, 17-30N LAT, 157- OW LONG, MAY 18, 1964, 1900 G.C.T.													
DRY BULB 25.0		WET FULB 22.0		WIND SPEED 18, DIR. 09		BAR. 17		WEATHER 03		VIS. 8		CLOUD TYPE 7, COVER 3			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OXY-DOPTH.			
0.	24.58	34.64			23.22	466.6	0.	24.58	34.64	23.22	466.6	0.000			
10.0	24.59	34.63			23.21	468.0	10.	24.59	34.63	23.21	468.0	0.047			
30.0	24.62	34.64			23.21	469.0	20.	24.60	34.63	23.20	468.6	0.094			
50.0	24.64	34.64			23.20	470.3	30.	24.62	34.64	23.21	469.0	0.141			
71.0	24.59	34.64			23.21	469.7	50.	24.64	34.64	23.20	470.3	0.236			
95.0	23.44	34.84			23.71	423.7	75.	24.42	34.67	23.28	463.1	0.354			
119.0	22.75	35.01			24.03	393.3	100.	23.31	34.88	23.78	417.0	0.465			
142.0	21.44	35.01			24.40	359.0	150.	21.06	35.03	24.52	348.0	0.657			
166.0	20.32	35.04			24.73	328.7	200.	18.34	34.84	25.09	295.2	0.819			
189.0	19.18	34.93			24.94	308.9	250.	13.88	34.39	25.76	231.2	0.952			
212.0	17.28	34.73			25.26	278.9	300.	10.96	34.19	26.17	192.0	1.059			
236.0	14.94	34.48			25.60	246.1	400.	7.83	34.14	26.64	147.2	1.230			
258.0	13.34	34.35			25.84	223.6	500.	6.32	34.24	26.93	120.1	1.365			
281.0	11.88	34.24			26.06	204.5	600.	5.73	34.38	27.11	103.5	1.478			
372.0	8.54	34.14			26.54	157.3	700.	5.32	34.45	27.22	94.0	1.578			
461.0	6.72	34.18			26.83	129.3	800.	4.94	34.48	27.29	88.1	1.670			
549.0	6.00	34.32			27.04	110.5	1000.	4.20	34.52	27.40	78.1	1.838			
726.0	5.24	34.46			27.24	92.5	1200.	3.60	34.55	27.49	69.7	1.987			
903.0	4.54	34.49			27.34	83.3									
1082.0	3.94	34.54			27.45	73.9									
1364.0	3.20	34.58			27.55	64.2									

*FROM BT DATA

*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA						
CROMWELL 4, STATION 4, 15-58N LAT, 157-1W LONG, MAY 19, 1964, 0400 G.C.T. DRY BULB 25.1 WET BULB 22.1 WIND SPEED 14, DIR. CB BAR. 14 WEATHER 01 VIS. 8 CLOUD TYPE 8, COVER 2														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	OYNO-OPTH.
0.	25.40	34.56			22.91	496.2	0.	25.40	34.56	22.91	496.2	0.000		
11.	25.36	34.56			22.92	495.4	10.	25.36	34.56	22.92	495.5	0.050		
54.	25.20	34.54			22.95	493.9	20.	25.37	34.54	22.90	497.5	0.100		
78.	24.65	34.70			23.24	467.4	30.	25.35	34.53	22.90	498.3	0.150		
104.	23.87	34.80			23.55	439.0	50.	25.24	34.53	22.94	495.2	0.250		
131.	22.23	34.96			24.14	383.2	75.	24.73	34.68	23.20	471.2	0.372		
157.	20.15	35.00			24.74	326.9	100.	24.02	34.79	23.49	444.2	0.487		
182.	18.07	34.83			25.14	289.1	150.	20.74	35.01	24.59	341.3	0.685		
209.	16.23	34.63			25.43	262.3	200.	16.87	34.70	25.33	271.2	0.839		
234.	13.66	34.38			25.80	227.1	250.	12.76	34.29	25.91	216.3	0.962		
260.	12.31	34.26			25.97	210.5	300.	10.14	34.21	26.33	176.7	1.061		
286.	10.75	34.20			26.22	187.3	400.	8.11	34.34	26.76	136.6	1.220		
311.	9.73	34.22			26.41	169.2	500.	6.89	34.40	26.99	115.7	1.347		
416.	7.99	34.36			26.79	133.5	600.	6.16	34.45	27.12	103.7	1.458		
519.	6.69	34.41			27.02	112.8	700.	5.61	34.48	27.21	95.4	1.558		
621.	6.06	34.46			27.14	101.9	800.	5.09	34.50	27.29	88.6	1.651		
828.	4.95	34.50			27.31	87.0	1000.	4.23	34.53	27.41	77.8	1.820		
1030.	4.12	34.53			27.42	76.4	1200.	3.59	34.56	27.50	69.5	1.969		
1233.	3.50	34.56			27.51	68.3	1500.	2.86	34.60	27.60	59.9	2.166		
1536.	2.80	34.60			27.61	59.0								

CROMWELL 4, STATION 5, 14-30N LAT, 156-59W LONG, MAY 19, 1964, 1200 G.C.T. DRY BULB 25.0 WET BULB 23.0 WIND SPEED 15, DIR. 06 BAR. 15 WEATHER 03 VIS. 7 CLOUD TYPE 8, COVER 0														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	OYNO-OPTH.
0.	25.25	34.50			22.91	496.1	0.	25.25	34.50	22.91	496.1	0.000		
10.	25.26	34.50			22.91	496.8	10.	25.26	34.50	22.91	496.8	0.050		
30.	25.26	34.50			22.91	497.6	20.	25.26	34.50	22.91	497.2	0.100		
50.	25.26	34.50			22.91	498.4	30.	25.26	34.50	22.91	497.6	0.150		
75.	24.41	34.71			23.32	459.7	50.	25.26	34.50	22.91	498.4	0.251		
99.	23.86	34.86			23.60	434.2	75.	24.41	34.71	23.32	459.7	0.371		
125.	22.29	35.04			24.19	378.9	100.	23.82	34.87	23.62	432.4	0.484		
148.	20.20	35.02			24.74	326.4	150.	19.95	35.00	24.79	321.8	0.674		
173.	17.12	34.70			25.27	276.1	200.	14.59	34.62	25.63	242.1	0.816		
198.	14.89	34.44			25.66	245.6	250.	10.62	34.23	26.26	182.1	0.923		
222.	12.14	34.26			26.01	206.4	300.	8.98	34.23	26.54	156.4	1.008		
248.	10.72	34.23			26.25	183.8	400.	7.97	34.44	26.86	126.7	1.151		
272.	9.69	34.23			26.42	167.0	500.	7.10	34.48	27.02	112.9	1.272		
296.	9.05	34.22			26.52	157.9	600.	6.21	34.50	27.15	100.7	1.380		
395.	8.01	34.44			26.85	127.6	700.	5.63	34.51	27.23	93.8	1.478		
492.	7.18	34.48			27.01	114.1	800.	5.20	34.51	27.29	89.0	1.570		
590.	6.28	34.50			27.14	101.5	1000.	4.39	34.54	27.40	78.5	1.740		
785.	5.27	34.51			27.28	89.8	1200.	3.70	34.58	27.50	69.2	1.889		
980.	4.47	34.54			27.39	79.5								
1174.	3.78	34.58			27.50	69.8								
1468.	2.98	34.61			27.60	60.0								

CROMWELL 4, STATION 6, 13-9N LAT, 157-3W LONG, MAY 19, 1964, 2200 G.C.T. DRY BULB 26.1 WET BULB 24.0 WIND SPEED 20, DIR. 06 BAR. 24 WEATHER 03 VIS. 7 CLOUD TYPE 6, COVER 8														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	OYNO-OPTH.
1.	26.56	34.71			22.66	519.9	0.	26.56	34.71	22.66	519.9	0.000		
40.	26.53	34.70			22.66	521.3	10.	26.58	34.71	22.65	521.1	0.052		
50.	26.48	34.70			22.68	520.2	20.	26.58	34.70	22.65	521.7	0.105		
62.	26.43	34.71			22.70	518.4	30.	26.56	34.70	22.65	521.8	0.158		
75.	26.36	34.70			22.72	517.6	50.	26.48	34.70	22.68	520.2	0.262		
85.	24.36	34.46			23.15	476.6	75.	26.36	34.70	22.72	517.6	0.393		
109.	21.39	34.78			24.24	373.1	100.	22.34	34.61	23.85	410.3	0.510		
133.	18.68	34.70			24.89	311.4	150.	16.02	34.53	25.40	263.2	0.680		
156.	15.07	34.46			25.56	248.0	200.	11.34	34.28	26.18	189.6	0.794		
179.	12.26	34.24			25.97	209.0	250.	10.07	34.40	26.49	160.3	0.882		
203.	11.28	34.30			26.20	187.4	300.	9.76	34.55	26.66	145.4	0.959		
227.	10.53	34.39			26.40	168.3	400.	8.13	34.67	26.86	126.8	1.096		
250.	10.07	34.40			26.49	160.3	500.	7.14	34.50	27.03	112.1	1.217		
274.	10.08	34.52			26.58	152.1	600.	6.46	34.54	27.15	101.4	1.325		
366.	8.58	34.48			26.80	132.7	700.	5.84	34.54	27.23	94.4	1.424		
461.	7.45	34.48			26.97	117.5	800.	5.33	34.53	27.29	89.1	1.517		
553.	6.78	34.53			27.10	105.7	1000.	4.52	34.55	27.39	79.8	1.687		
739.	5.62	34.53			27.25	92.4	1200.	3.85	34.56	27.48	72.0	1.841		
924.	4.81	34.54			27.35	83.3								
1110.	4.14	34.56			27.44	75.2								
1387.	3.35	34.58			27.54	66.2								

SALINITY ERROR TERM AT 100. METERS IS 0.07

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL 4, STATION 7, 11-30N LAT, 157-2W LNG, MAY 20, 1964, 0700 G.C.T.	DRY BULB 27.2	WET BULB 24.6	WIND SPEED 18, DIR. 06	BAR. 13	WEATHER 01	VIS. 7	CLOUD TYPE 8, COVER 4	DEPTH	TEMP.	SAL.	OXY.
								PC4-P	SIGMA-T	DELTA	CEPTH
0.△	27.42	34.56			22.27	556.9	0.		27.42	34.56	22.27
30.△	27.35	34.58			22.31	554.5	10.		27.39	34.57	22.29
50.△	27.32	34.60			22.34	553.0	20.		27.37	34.57	22.30
75.△	27.30	34.64			22.37	550.5	30.		27.35	34.58	22.31
86.△	27.29	34.66			22.39	549.2	50.		27.32	34.60	22.34
97.△	16.40	34.50			25.29	272.1	75.		27.30	34.64	22.37
102.△	14.33	34.44			25.70	232.6	100.		14.98	34.46	25.58
107.△	13.47	34.48			25.91	212.6	150.		11.62	34.71	26.46
118.△	12.96	34.60			26.11	194.3	200.		10.80	34.72	26.61
144.△	11.79	34.70			26.42	165.7	250.		10.30	34.72	26.70
171.△	11.21	34.73			26.55	153.8	300.		9.91	34.70	26.75
198.△	10.82	34.72			26.61	148.3	400.		8.93	34.66	26.89
224.△	10.58	34.72			26.65	144.8	500.		8.27	34.60	26.94
250.△	10.30	34.72			26.70	140.6	600.		7.43	34.56	27.03
277.△	10.13	34.70			26.72	139.8	700.		6.63	34.54	27.13
303.△	9.88	34.70			26.76	136.1	800.		5.92	34.54	27.22
408.△	8.86	34.66			26.89	124.7	1000.		4.85	34.56	27.36
508.△	8.22	34.60			26.95	120.9	1200.		4.09	34.58	27.46
607.△	7.37	34.56			27.04	112.8	1500.		3.17	34.60	27.57
808.△	5.87	34.54			27.23	95.9					
1007.△	4.82	34.56			27.37	82.8					
1206.△	4.07	34.58			27.47	73.7					
1504.△	3.16	34.60			27.57	63.2					

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL 4, STATION 7A, 10- ON LAT, 154-0W LNG, MAY 21, 1964, 0300 G.C.T.	DRY BULB 27.3	WET BULB 24.8	WIND SPEED 14, DIR. 10	BAR. 10	WEATHER 03	VIS. 7	CLOUD TYPE 8, COVER 6	DEPTH	TEMP.	SAL.	OXY.
								PC4-P	SIGMA-T	DELTA	CEPTH
0.△	27.14	34.82			22.56	529.6	0.		27.14	34.82	22.56
11.△	27.11	34.82			22.57	529.1	10.		27.11	34.82	22.57
30.△	27.06	34.82			22.58	528.4	20.		27.09	34.82	22.58
50.△	27.00	34.82			22.60	527.3	30.		27.06	34.82	22.58
77.△	26.87	34.82			22.65	524.5	50.		27.00	34.82	22.60
102.△	26.09	34.78			22.86	504.8	75.		26.89	34.82	22.64
113.△	19.36	34.55			24.60	338.2	100.		26.54	34.80	22.73
123.△	15.18	34.46			25.54	249.4	150.		12.34	34.60	26.23
133.△	13.40	34.40			25.87	217.8	200.		11.41	34.76	26.54
153.△	12.30	34.65			26.28	179.0	250.		10.79	34.75	26.64
178.△	11.75	34.76			26.47	161.4	300.		10.33	34.72	26.70
204.△	11.36	34.76			26.54	155.0	400.		9.49	34.68	26.81
229.△	11.05	34.75			26.59	150.9	500.		8.47	34.62	26.93
255.△	10.73	34.75			26.65	145.9	600.		7.53	34.58	27.03
280.△	10.47	34.74			26.69	142.7	700.		6.58	34.55	27.15
306.△	10.29	34.72			26.70	141.6	800.		5.72	34.54	27.25
406.△	9.43	34.68			26.82	132.3	1000.		4.65	34.56	27.39
505.△	8.42	34.62			26.93	122.5	1200.		3.84	34.57	27.48
606.△	7.48	34.58			27.04	112.9					
805.△	5.68	34.54			27.25	93.3					
1005.△	4.63	34.56			27.39	80.3					
1156.△	3.98	34.57			27.47	72.8					
1382.△	3.36	34.58			27.54	66.3					

TEMPERATURE ERROR TERM AT 100. METERS IS 0.24

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL 4, STATION 8, 11-32N LAT, 153-59W LNG, MAY 21, 1964, 1200 G.C.T.	DRY BULB 26.7	WET BULB 24.1	WIND SPEED 20, DIR. 08	BAR. 12	WEATHER 00	VIS. 7	CLOUD TYPE 8, COVER	DEPTH	TEMP.	SAL.	OXY.
								PC4-P	SIGMA-T	DELTA	CEPTH
0.△	26.70	34.68			22.59	526.2	0.		26.70	34.68	22.59
10.△	26.70	34.68			22.59	526.6	10.		26.70	34.68	22.59
30.△	26.68	34.68			22.60	526.9	20.		26.75	34.69	22.58
50.△	25.70	34.58			22.83	505.5	30.		26.68	34.68	22.60
69.△	24.18	34.49			23.22	468.7	50.		25.70	34.58	22.83
80.△	23.54	34.57			23.47	445.4	75.		23.89	34.52	23.33
91.△	21.83	34.80			24.13	382.6	100.		20.69	34.84	24.48
101.△	20.57	34.84			24.51	347.2	150.		13.98	34.38	25.73
113.△	19.16	34.81			24.85	314.4	200.		10.88	34.39	26.34
123.△	18.23	34.75			25.04	296.7	250.		10.36	34.57	26.58
149.△	14.08	34.38			25.71	233.2	300.		10.04	34.63	26.68
178.△	12.13	34.37			26.09	197.0	400.		8.98	34.61	26.84
202.△	10.81	34.39			26.35	172.5	500.		8.13	34.57	26.94
228.△	10.62	34.53			26.50	159.5	600.		7.28	34.54	27.04
256.△	10.29	34.58			26.59	150.8	700.		6.43	34.54	27.15
307.△	10.01	34.64			26.69	142.8	800.		5.67	34.54	27.25
413.△	8.82	34.60			26.85	128.5	1000.		4.66	34.54	27.37
514.△	8.03	34.57			26.95	120.3	1200.		3.93	34.57	27.47
613.△	7.17	34.54			27.05	111.4	1500.		3.09	34.60	27.58
812.△	5.59	34.54			27.26	92.2					
1010.△	4.62	34.54			27.38	81.7					
1208.△	3.90	34.57			27.48	72.3					
1506.△	3.08	34.60			27.58	62.2					

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL	4, STATION	9, 13- 4N LAT,	154- 0W LCNG, MAY 21, 1964, 2200 G.C.T.	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
DRY BULB	25.7	WET BULB	23.2	WIND SPEED	23	OIR.	08	BAR. 14	WEATHER	02	VIS. 7	CLOUD	TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CLOUD	TYPE 8, COVER 2		
0.	24.98	34.45			22.95	491.9	0.	24.98	34.45	22.95	491.9	0.000			
10.	24.94	34.46			22.97	490.4	10.	24.94	34.46	22.97	490.4	0.049			
51.	24.34	34.51			23.19	471.1	20.	24.87	34.47	23.00	488.0	0.099			
75.	23.55	34.55			23.45	446.9	30.	24.75	34.48	23.05	484.1	0.148			
98.	21.11	34.94			24.44	353.8	50.	24.36	34.51	23.18	471.9	0.244			
126.	19.19	34.94			24.95	306.2	75.	23.55	34.55	23.45	446.9	0.360			
150.	16.30	34.59			25.38	264.9	100.	20.98	34.96	24.49	349.3	0.460			
175.	13.36	34.30			25.80	225.5	150.	16.30	34.59	25.38	264.9	0.615			
200.	11.49	34.26			26.13	194.0	200.	11.49	34.26	26.13	194.0	0.730			
225.	10.70	34.34			26.34	174.8	250.	10.31	34.43	26.47	162.4	0.820			
251.	10.30	34.43			26.48	161.9	300.	9.78	34.56	26.67	144.7	0.896			
274.	10.00	34.52			26.60	150.8	400.	8.56	34.56	26.86	127.2	1.035			
300.	9.78	34.56			26.67	144.7	500.	7.79	34.57	26.99	116.5	1.158			
399.	8.57	34.56			26.86	127.3	600.	6.68	34.52	27.11	105.7	1.270			
498.	7.81	34.57			26.99	116.8	700.	5.98	34.51	27.19	98.4	1.373			
596.	6.71	34.52			27.10	106.0	800.	5.48	34.52	27.26	91.9	1.469			
793.	5.52	34.52			27.25	92.5	1000.	4.57	34.59	27.42	77.3	1.641			
988.	4.62	34.59			27.42	77.8	1200.	3.84	34.60	27.51	69.2	1.789			
1183.	3.92	34.58			27.48	71.6									
1474.	3.06	34.60			27.58	61.8									

CROMWELL	4, STATION	10, 14-30N LAT,	154- 2W LCNG, MAY 22, 1964, 0800 G.C.T.	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
DRY BULB	25.3	WET BULB	22.6	WIND SPEED	24	OIR.	08	BAR. 16	WEATHER	01	VIS. B	CLOUD	TYPE 8, COVER 1		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CLOUD	TYPE 8, COVER 1		
0.	24.56	34.52			23.13	474.7	0.	24.56	34.52	23.13	474.7	0.000			
11.	24.60	34.50			23.11	477.7	10.	24.60	34.50	23.11	477.6	0.048			
30.	24.58	34.51			23.12	477.2	20.	24.60	34.50	23.11	478.0	0.096			
50.	24.50	34.52			23.15	474.9	30.	24.58	34.51	23.12	477.2	0.144			
71.	24.22	34.54			23.25	466.3	50.	24.50	34.52	23.15	474.9	0.240			
94.	22.81	34.96			23.98	397.6	75.	24.04	34.61	23.36	456.4	0.357			
120.	20.46	35.06			24.70	329.1	100.	22.28	35.01	24.17	379.7	0.463			
144.	18.66	34.90			25.05	296.8	150.	18.07	34.84	25.15	287.4	0.631			
168.	16.23	34.64			25.44	260.3	200.	13.22	34.37	25.88	218.5	0.758			
192.	14.08	34.42			25.74	231.5	250.	10.24	34.42	26.48	161.5	0.854			
216.	11.66	34.31			26.14	193.8	300.	9.40	34.49	26.68	143.5	0.931			
240.	10.54	34.40			26.41	168.0	400.	8.25	34.52	26.88	125.2	1.067			
263.	9.94	34.44			26.54	155.4	500.	7.40	34.52	27.00	114.6	1.188			
287.	9.58	34.48			26.64	147.1	600.	6.51	34.51	27.12	104.3	1.298			
382.	8.41	34.52			26.86	127.5	700.	5.79	34.50	27.21	96.4	1.400			
476.	7.63	34.52			26.97	117.4	800.	5.21	34.51	27.28	89.4	1.493			
570.	6.75	34.51			27.09	107.0	1000.	4.35	34.54	27.41	78.0	1.663			
756.	5.45	34.50			27.25	92.6	1200.	3.68	34.57	27.50	69.7	1.812			
945.	4.56	34.54			27.38	80.3									
1131.	3.91	34.55			27.46	73.2									
1411.	3.19	34.60			27.57	62.9									

CROMWELL	4, STATION	11, 16- ON LAT, 153-59W LCNG, MAY 22, 1964, 1700 G.C.T.	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
DRY BULB	24.8	WET BULB	21.7	WIND SPEED	24	OIR.	08	BAR. 14	WEATHER	02	VIS. B	CLOUD	TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CLOUD	TYPE 8, COVER 2		
0.	24.89	34.50***			23.02	485.6	0.	24.89	34.50	23.02	485.6	0.000			
11.	24.91	34.50			23.01	486.7	10.	24.91	34.50	23.01	486.6	0.049			
30.	24.91	34.50			23.01	487.4	20.	24.91	34.50	23.01	487.1	0.098			
50.	24.90	34.50			23.02	487.9	30.	24.91	34.50	23.01	487.4	0.147			
74.	23.57	34.59***			23.48	444.5	50.	24.90	34.50	23.02	487.9	0.245			
98.	22.87	34.86			23.89	406.6	75.	23.54	34.60	23.50	442.9	0.363			
125.	21.52	34.96			24.34	364.1	100.	22.80	34.87	23.92	403.7	0.469			
149.	19.43	34.87			24.83	318.0	150.	19.33	34.86	24.85	316.1	0.651			
173.	16.98	34.65			25.27	276.6	200.	14.59	34.43	25.64	241.7	0.791			
198.	14.77	34.44			25.61	244.4	250.	11.30	34.22	26.13	195.0	0.901			
224.	12.65	34.29			25.93	213.8	300.	10.14	34.34	26.44	166.7	0.992			
248.	11.40	34.22			26.12	196.4	400.	7.81	34.31	26.78	134.2	1.144			
272.	10.44	34.22			26.29	180.2	500.	6.76	34.36	26.97	116.9	1.271			
298.	10.18	34.34			26.43	167.5	600.	6.14	34.42	27.10	105.5	1.383			
396.	7.87	34.31			26.77	135.1	700.	5.60	34.46	27.20	96.9	1.486			
494.	6.81	34.36			26.96	117.8	800.	5.12	34.48	27.27	90.2	1.580			
592.	6.19	34.42			27.09	106.2	1000.	4.31	34.53	27.40	78.8	1.751			
788.	5.18	34.48			27.26	90.9	1200.	3.64	34.57	27.50	69.0	1.901			
983.	4.37	34.52			27.39	79.8									
1179.	3.73	34.58			27.50	69.2									
1473.	2.91	34.60			27.60	60.0									

FROM BT DATA

***SAMPLE BOTTLE CRACKED

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL	4, STATION	12, 17-32N LAT, 154-0W LENG,	0200 G.C.T.									
DRY BULB 24.7	WET BULB 21.7	WIND SPEED 17, DIR. 07	BAR. 15	WEATHER 03	VIS. 8	CLOUD TYPE 5, COVER 8						
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.18	34.56			23.28	461.0	0.	24.18	34.56	23.28	461.0	0.000
11.	24.18	34.57			23.28	460.7	10.	24.18	34.57	23.28	460.7	0.046
30. ^Δ	24.16	34.56			23.28	461.6	20.	24.17	34.57	23.28	461.1	0.093
50. ^Δ	24.12	34.56			23.29	461.2	30.	24.16	34.56	23.28	461.6	0.139
79.	24.04	34.56			23.32	460.1	50.	24.12	34.56	23.29	461.2	0.232
104.	23.50	34.74			23.61	432.9	75.	24.07	34.55	23.30	461.2	0.348
132.	21.75	35.02			24.32	366.1	100.	23.63	34.70	23.55	439.1	0.462
158.	20.26	34.94			24.67	339.1	150.	20.72	34.98	24.58	342.5	0.659
185.	18.57	34.86			25.04	298.9	200.	17.28	34.71	25.24	280.1	0.816
211.	16.26	34.58			25.38	266.7	250.	13.11	34.30	25.85	222.3	0.942
236.	14.05	34.38			25.72	239.0	300.	10.57	34.17	26.22	186.9	1.046
263.	12.38	34.25			25.95	212.6	400.	7.93	34.24	26.71	141.5	1.211
289.	11.17	34.18			26.13	196.2	500.	7.20	34.39	26.93	120.9	1.344
314.	9.82	34.16			26.35	179.1	600.	6.17	34.43	27.10	105.5	1.458
420.	7.83	34.27			26.75	137.9	700.	5.38	34.44	27.21	95.7	1.560
522.	7.06	34.42			26.97	117.3	800.	4.95	34.47	27.28	89.0	1.653
627.	5.86	34.42			27.13	102.3	1000.	4.31	34.53	27.40	78.4	1.823
833.	4.86	34.48			27.30	87.4	1200.	3.73	34.56	27.48	71.1	1.974
1038.	4.20	34.54			27.42	76.7	1500.	2.97	34.60	27.59	61.1	2.175
1242.	3.62	34.56			27.50	69.9						
1547.	2.86	34.60			27.60	59.8						

TEMPERATURE ERROR TERM AT 40°C. METERS IS 0.12

CROMWELL	4, STATION	13, 19-10N LAT, 154-0W LENG,	0200 G.C.T.									
DRY BULB 22.9	WET BULB 21.1	WIND SPEED 20, DIR. 08	BAR. 16	WEATHER 20	VIS. 7	CLOUD TYPE 6, COVER 8						
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	23.85	34.61			23.41	448.1	0.	23.85	34.61	23.41	448.1	0.000
11.	23.86	34.62			23.42	448.1	10.	23.86	34.62	23.42	448.1	0.045
55.	23.86	34.62			23.42	449.8	20.	23.91	34.63	23.41	449.4	0.090
79.	23.37	34.58			23.53	439.9	30.	23.94	34.63	23.40	450.2	0.136
106.	22.62	34.69			23.83	412.3	50.	23.89	34.62	23.41	450.2	0.226
133.	20.53	34.96			24.61	338.6	75.	23.47	34.58	23.50	442.3	0.339
158.	18.06	34.70			25.05	297.5	100.	22.85	34.65	23.73	421.3	0.448
184.	15.70	34.43			25.40	264.5	150.	18.87	34.81	24.93	308.6	0.631
210.	13.00	34.23			25.82	224.5	200.	13.97	34.29	25.67	238.6	0.769
237.	11.78	34.21			26.04	203.8	250.	11.26	34.22	26.15	193.6	0.878
264.	10.73	34.24			26.25	183.5	300.	9.46	34.20	26.44	166.1	0.969
289.	9.87	34.22			26.39	171.0	400.	7.22	34.16	26.75	136.6	1.122
315.	8.92	34.17			26.50	159.9	500.	5.96	34.22	26.96	116.8	1.250
422.	6.98	34.18			26.80	132.4	600.	5.35	34.34	27.14	101.1	1.360
524.	5.73	34.24			27.01	112.6	700.	5.03	34.43	27.24	91.6	1.457
627.	5.27	34.38			27.17	97.6	800.	4.74	34.47	27.31	86.0	1.547
835.	4.65	34.48			27.32	84.7	1000.	4.13	34.51	27.41	77.4	1.712
1040.	4.00	34.52			27.43	75.8	1200.	3.51	34.56	27.51	68.3	1.860
1244.	3.39	34.57			27.53	66.4	1500.	2.83	34.60	27.60	59.5	2.054
1549.	2.74	34.60			27.61	58.4						

CROMWELL	4, STATION	14, 20-49N LAT, 154-0W LENG,	0200 G.C.T.									
DRY BULB 23.3	WET BULB 20.2	WIND SPEED 28, DIR. 08	BAR. 19	WEATHER 03	VIS. 7	CLOUD TYPE 6, COVER 8						
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
3.	23.46	34.63			23.54	435.9	0.	23.46	34.63	23.54	435.8	0.000
8.	23.46	34.63			23.54	436.1	10.	23.46	34.63	23.54	436.1	0.044
30. ^Δ	23.46	34.63			23.54	436.9	20.	23.46	34.63	23.54	436.5	0.088
50. ^Δ	23.46	34.63			23.54	437.7	30.	23.46	34.63	23.54	436.9	0.132
98.	23.46	34.73			23.62	432.3	50.	23.46	34.63	23.54	437.7	0.220
122.	22.87	34.96			23.96	400.3	75.	23.56	34.64	23.52	440.4	0.331
146.	21.78	35.03			24.32	366.7	100.	23.43	34.75	23.64	430.0	0.440
171.	20.40	35.02			24.69	332.3	150.	21.59	35.04	24.38	361.0	0.639
187.	19.14	34.84			24.88	314.3	200.	18.24	34.73	25.03	300.9	0.806
219.	16.99	34.60			25.23	281.9	250.	14.83	34.40	25.57	249.7	0.945
245.	15.22	34.44			25.51	255.2	300.	11.42	34.13	26.04	204.4	1.060
271.	13.20	34.26			25.80	227.8	400.	8.13	34.10	26.57	154.3	1.241
297.	11.57	34.14			26.02	206.5	500.	6.72	34.20	26.85	128.3	1.383
395.	8.24	34.10			26.55	156.1	600.	6.24	34.25	26.95	119.3	1.508
496.	6.74	34.20			26.85	128.6	700.	5.88	34.33	27.06	110.2	1.624
694.	5.94	34.32			27.04	111.6	800.	4.88	34.47	27.29	87.7	1.724
795.	4.91	34.47			27.29	88.3	1000.	4.25	34.53	27.41	77.6	1.892
995.	4.26	34.53			27.41	77.8	1200.	3.69	34.56	27.49	70.5	2.042
1192.	3.74	34.55			27.48	71.7						
1489.	2.96	34.58			27.58	62.1						

TEMPERATURE ERROR TERM AT 600° METERS IS 0.18

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA					
CROMWELL		4, STATION		15, 21-59N LAT, 154- 2W LNG, MAY	24, 1964, 0600 G.C.T.										
DRY BULB	23.2	WET BULB	20.2	WIND SPEED	26, 0IR. 10	BAR.	15	WEATHER	01	VIS.	7	CLOUD	TYPE	8, COVER	1
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.			
0.	23.24	34.78			23.72	418.8	0.	23.24	34.78	23.72	418.8	0.000			
10.	23.27	34.78			23.71	420.0	10.	23.27	34.78	23.71	420.0	0.042			
75.	23.00	34.96			23.92	402.1	20.	23.27	34.80	23.72	419.1	0.085			
101.	22.76	35.03			24.05	391.5	30.	23.25	34.82	23.74	417.6	0.127			
124.	22.39	35.09			24.20	377.9	50.	23.18	34.87	23.81	412.4	0.210			
149.	21.22	35.02			24.47	352.7	75.	23.00	34.96	23.92	402.1	0.313			
175.	20.00	35.00			24.78	323.7	100.	22.77	35.03	24.04	391.9	0.413			
190.	19.61	35.00			24.88	314.5	150.	21.17	35.02	24.48	351.5	0.600			
222.	18.04	34.84			25.16	289.0	200.	19.18	34.96	24.96	307.0	0.766			
248.	16.65	34.72			25.40	266.4	250.	16.56	34.71	25.41	265.1	0.910			
275.	15.50	34.58			25.56	251.9	300.	14.36	34.45	25.71	238.0	1.037			
300.	14.36	34.45			25.71	238.0	400.	9.83	34.12	26.31	180.0	1.248			
400.	9.83	34.12			26.31	180.0	500.	7.38	34.03	26.62	150.3	1.415			
499.	7.40	34.03			26.62	150.6	600.	5.78	34.08	26.88	125.8	1.554			
598.	5.80	34.08			26.87	126.3	700.	4.92	34.22	27.08	106.3	1.672			
794.	4.50	34.35			27.24	92.1	800.	4.48	34.36	27.24	91.5	1.772			
988.	3.91	34.47			27.40	77.9	1000.	3.88	34.48	27.40	77.2	1.942			
1182.	3.41	34.53			27.49	69.1	1200.	3.37	34.54	27.51	68.0	2.089			
1474.	2.82	34.56			27.57	61.8									

CROMWELL		4, STATION		16, 23-30N LAT, 154- 0W LNG, MAY	24, 1964, 1600 G.C.T.										
DRY BULB	21.3	WET BULB	18.8	WIND SPEED	25, 0IR. 08	BAR.	20	WEATHER	02	VIS.	7	CLOUD	TYPE	5, COVER	6
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.			
0.	23.19	34.92			23.83	407.3	0.	23.19	34.92	23.84	407.3	0.000			
9.	23.21	34.92			23.84	408.2	10.	23.21	34.92	23.83	408.3	0.041			
30. Δ	23.20	34.92			23.84	408.8	20.	23.21	34.92	23.83	408.6	0.082			
50. Δ	23.20	34.92			23.84	409.5	30.	23.20	34.92	23.84	408.8	0.123			
72.	23.15	34.92			23.85	409.0	50.	23.20	34.92	23.84	409.5	0.206			
95.	22.73	35.00			24.03	392.6	75.	23.10	34.93	23.87	407.3	0.309			
119.	22.38	35.09			24.20	377.5	100.	22.66	35.02	24.06	389.9	0.409			
143.	21.76	35.26			24.50	349.5	150.	21.53	35.27	24.57	343.1	0.594			
166.	21.08	35.26			24.69	332.4	200.	19.61	35.07	24.94	309.3	0.758			
180.	20.88	35.26			24.74	327.7	250.	16.19	34.66	25.46	260.7	0.902			
212.	18.62	34.93			25.08	296.0	300.	13.62	34.38	25.80	228.2	1.025			
237.	16.94	34.74			25.35	271.1	400.	9.97	34.12	26.29	182.0	1.232			
261.	15.59	34.59			25.54	252.7	500.	7.37	34.03	26.63	150.1	1.400			
286.	14.27	34.44			25.72	236.5	600.	5.54	34.07	26.90	123.6	1.538			
381.	10.56	34.16			26.22	189.0	700.	4.67	34.19	27.09	105.3	1.654			
476.	7.95	34.04			26.55	157.6	800.	4.33	34.32	27.23	92.3	1.754			
512.	5.89	34.04			26.83	130.1	1000.	3.91	34.47	27.40	77.7	1.926			
762.	4.45	34.28			27.15	96.4	1200.	3.43	34.55	27.51	68.1	2.073			
954.	4.02	34.45			27.37	80.4									
1145.	3.54	34.52			27.47	71.1									
1433.	2.88	34.56			27.57	62.3									

TEMPERATURE ERROR TERM AT 200. METERS IS 0.10

CROMWELL		4, STATION		17, 23-30N LAT, 151- 0W LNG, MAY	25, 1964, 1100 G.C.T.										
DRY BULB	21.3	WET BULB	18.8	WIND SPEED	16, 0IR. 07	BAR.	22	WEATHER	03	VIS.	6	CLOUD	TYPE	8, COVER	6
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.			
1.	22.72	35.12			24.13	380.1	0.	22.72	35.12	24.13	380.0	0.000			
9.	22.75	35.12			24.12	381.2	10.	22.76	35.12	24.11	381.7	0.038			
30. Δ	22.75	35.12			24.12	382.0	20.	22.82	35.11	24.09	384.5	0.077			
47.	21.96	35.26			24.45	351.2	30.	22.75	35.12	24.12	382.0	0.116			
72.	21.51	35.34			24.63	334.4	50.	21.88	35.28	24.48	348.0	0.189			
96.	21.24	35.32			24.69	329.7	75.	21.47	35.34	24.64	333.5	0.275			
120.	20.96	35.29			24.74	325.4	100.	21.23	35.32	24.69	329.5	0.358			
143.	19.66	35.10			24.95	306.9	150.	19.38	35.06	24.99	302.7	0.518			
168.	18.72	34.98			25.1C	293.3	200.	17.06	34.75	25.33	272.1	0.663			
183.	18.08	34.88			25.18	285.7	250.	14.21	34.42	25.71	235.9	0.791			
214.	16.15	34.64			25.46	260.0	300.	12.04	34.25	26.02	207.0	0.902			
238.	14.79	34.49			25.64	242.3	400.	8.43	34.03	26.47	164.4	1.090			
266.	13.50	34.34			25.8C	227.7	500.	6.69	34.05	26.73	139.3	1.243			
288.	12.58	34.29			25.95	214.1	600.	5.35	34.13	26.96	117.0	1.372			
384.	8.81	34.04			26.42	169.1	700.	4.72	34.25	27.13	101.4	1.483			
482.	7.00	34.04			26.68	143.9	800.	4.42	34.36	27.26	90.2	1.580			
577.	5.55	34.10			26.92	121.3	1000.	3.87	34.49	27.41	76.4	1.748			
772.	4.52	34.34			27.23	92.9	1200.	3.39	34.56	27.52	67.0	1.893			
966.	3.96	34.47			27.39	78.3									
1158.	3.48	34.54			27.49	69.0									
1451.	2.91	34.58			27.58	61.3									

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL	4, STATION	18, 22- IN LAT.	150-58W LONG, MAY 25, 1964, 2000 G.C.T.	DRY BULB	23.4	WET BULB	20.1	WIND SPEED	16, DIR. 10	BAR. 21	WEATHER 02	VIS. 8	CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	DYN.DPTH.
1.	23.07	34.92			23.87	404.1	0.	23.07	34.92	23.87	404.0	0.000	
11.	23.05	34.92			23.88	403.9	10.	23.05	34.92	23.88	403.9	0.041	
76.	23.00	34.94			23.91	403.6	20.	23.05	34.91	23.87	404.8	0.081	
102.	22.86	35.02			24.01	395.0	30.	23.05	34.91	23.87	405.3	0.122	
128.	22.56	35.18			24.22	376.2	50.	23.04	34.91	23.88	405.5	0.204	
151.	21.86	35.17			24.41	358.9	75.	23.00	34.94	23.91	403.7	0.306	
176.	20.35	35.15			24.80	321.8	100.	22.87	35.01	24.00	395.9	0.407	
202.	19.23	35.03			25.00	303.3	150.	21.90	35.17	24.40	359.8	0.597	
227.	17.91	34.84			25.19	286.1	200.	19.31	35.04	24.99	304.4	0.764	
252.	16.13	34.62			25.44	262.1	250.	16.28	34.64	25.42	264.2	0.908	
278.	14.07	34.38			25.71	236.6	300.	12.43	34.22	25.92	216.3	1.029	
304.	12.15	34.20			25.96	212.9	400.	8.96	34.08	26.42	169.0	1.223	
402.	8.93	34.08			26.43	168.4	500.	7.16	34.16	26.75	137.8	1.378	
503.	7.12	34.16			26.76	137.0	600.	5.63	34.22	27.00	113.8	1.505	
601.	5.62	34.22			27.01	113.6	700.	5.00	34.33	27.16	99.1	1.613	
799.	4.79	34.43			27.27	89.8	800.	4.79	34.43	27.27	89.7	1.708	
997.	4.22	34.50			27.39	79.5	1000.	4.21	34.50	27.39	79.4	1.879	
1196.	3.62	34.54			27.48	71.0	1200.	3.64	34.54	27.48	70.9	2.032	
1494.	2.93	34.58			27.58	61.8							

TEMPERATURE ERROR TERM AT 700. METERS IS 0.11

CROMWELL	4, STATION	19, 20-28N LAT, 151- 4W LONG, MAY 26, 1964, 0500 G.C.T.	DRY BULB	23.1	WET BULB	20.1	WIND SPEED	16, DIR. 08	BAR. 19	WEATHER 03	VIS. 7	CLOUD TYPE 5, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	DYN.DPTH.
1.	22.88	35.04			24.02	390.2	0.	22.88	35.04	24.02	390.2	0.000	
10.	22.88	35.05			24.03	389.8	10.	22.88	35.05	24.03	389.8	0.039	
47.	22.44	35.09			24.18	376.4	20.	22.77	35.06	24.07	386.4	0.078	
73.	22.40	35.10			24.20	375.6	30.	22.66	35.07	24.11	382.8	0.117	
97.	22.22	35.09			24.24	372.3	50.	22.43	35.09	24.19	376.2	0.194	
118.	22.05	35.16			24.35	363.5	75.	22.39	35.10	24.20	375.5	0.288	
143.	21.38	35.20			24.56	343.7	100.	22.21	35.10	24.25	371.5	0.382	
166.	20.18	35.13			24.83	318.6	150.	21.02	35.18	24.65	335.7	0.561	
180.	19.66	35.08			24.93	309.6	200.	18.91	34.99	25.06	298.0	0.720	
211.	18.37	34.92			25.14	290.7	250.	15.22	34.48	25.54	252.4	0.859	
236.	16.48	34.64			25.38	268.0	300.	11.57	34.15	26.03	205.7	0.974	
261.	14.23	34.37			25.67	240.1	400.	8.79	34.16	26.51	160.6	1.159	
285.	12.36	34.20			25.92	216.4	500.	7.18	34.22	26.80	133.7	1.308	
380.	9.16	34.14			26.44	167.2	600.	5.61	34.22	27.01	113.1	1.432	
475.	7.68	34.22			26.73	140.3	700.	5.03	34.33	27.16	99.1	1.540	
571.	5.87	34.20			26.96	118.0	800.	4.78	34.44	27.28	89.1	1.635	
762.	4.93	34.41			27.24	92.6	1000.	4.06	34.52	27.42	76.3	1.802	
952.	4.24	34.51			27.39	78.6	1200.	3.45	34.56	27.51	67.7	1.948	
1118.	3.66	34.53			27.47	71.6							
1354.	3.08	34.57			27.56	63.4							

TEMPERATURE ERROR TERM AT 300. METERS IS 0.11

TEMPERATURE ERROR TERM AT 700. METERS IS 0.12

CROMWELL	4, STATION	20, 18-56N LAT, 151- 4W LONG, MAY 26, 1964, 1500 G.C.T.	DRY BULB	23.3	WET BULB	20.3	WIND SPEED	19, DIR. 07	BAR. 17	WEATHER 01	VIS. 7	CLOUD TYPE 4, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	DYN.DPTH.
0.	23.73	34.57			23.42	447.6	0.	23.73	34.57	23.42	447.6	0.000	
10.	23.74	34.57			23.41	448.3	10.	23.74	34.57	23.41	448.3	0.045	
30.	23.74	34.57			23.41	449.0	20.	23.78	34.55	23.39	451.1	0.090	
49.	23.22	34.86			23.78	414.4	30.	23.74	34.57	23.41	449.0	0.136	
72.	23.07	34.92			23.87	406.8	50.	23.21	34.87	23.79	413.8	0.223	
96.	22.38	34.94			24.09	387.4	75.	23.01	34.92	23.89	404.9	0.326	
121.	21.31	34.97			24.41	357.7	100.	22.21	34.94	24.13	383.1	0.425	
144.	20.57	35.15			24.74	326.3	150.	20.29	35.14	24.81	320.1	0.602	
169.	19.12	34.99			25.00	302.4	200.	16.14	34.53	25.37	267.4	0.750	
192.	17.12	34.64			25.23	281.1	250.	11.98	34.20	25.99	208.6	0.870	
217.	14.14	34.34			25.67	239.2	300.	9.78	34.14	26.34	175.6	0.967	
242.	12.46	34.22			25.91	215.8	400.	8.50	34.30	26.67	145.3	1.129	
265.	11.16	34.17			26.12	196.2	500.	7.68	34.50	26.95	120.1	1.263	
289.	10.08	34.14			26.29	180.4	600.	6.55	34.44	27.06	109.6	1.379	
386.	8.61	34.26			26.62	149.8	700.	5.94	34.47	27.16	100.7	1.485	
481.	7.91	34.50			26.92	123.1	800.	5.48	34.50	27.24	93.5	1.583	
577.	6.73	34.44			27.04	112.0	1000.	4.54	34.51	27.36	83.1	1.762	
768.	5.66	34.50			27.22	95.5	1200.	3.86	34.54	27.45	74.2	1.921	
959.	4.89	34.50			27.34	85.1							
1151.	4.09	34.54			27.43	76.4							
1439.	3.24	34.58			27.55	65.2							

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		4, STATION	21, 17-30N LAT, 151-0W LONG, MAY	27, 1964, 0900 G.C.T.									
DRY BULB	24.0	WET BULB	21.7	WIND SPEED	18, DIR. 06	BAR. 17	WEATHER 02	VIS. 7	CLOUD	TYPE 8, COVER	3		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.19	34.56			23.27	461.3	0.	24.19	34.56	23.27	461.3	0.000	
10.	24.33	34.55			23.22	466.4	10.	24.33	34.55	23.22	466.4	0.047	
30.	24.28	34.56			23.25	465.0	20.	24.35	34.55	23.22	467.2	0.094	
50.	23.92	34.56			23.35	455.6	30.	24.28	34.56	23.25	465.0	0.141	
75.	23.76	34.58			23.42	450.6	50.	23.92	34.56	23.35	455.6	0.233	
100.	22.92	34.74			23.78	416.7	75.	23.76	34.58	23.42	450.6	0.348	
124.	21.50	34.85			24.26	371.5	100.	22.92	34.74	23.78	416.7	0.457	
150.	20.18	34.98			24.72	328.9	150.	20.18	34.98	24.72	328.9	0.645	
174.	18.21	34.77			25.06	296.5	200.	15.25	34.46	25.52	253.4	0.791	
190.	16.39	34.58			25.35	268.9	250.	11.71	34.20	26.04	203.6	0.907	
222.	13.14	34.25			25.80	226.1	300.	10.25	34.30	26.38	171.7	1.001	
249.	11.75	34.20			26.03	204.2	400.	8.57	34.40	26.74	139.1	1.158	
276.	10.85	34.21			26.21	188.1	500.	7.37	34.44	26.95	119.9	1.289	
300.	10.25	34.30			26.38	171.7	600.	6.51	34.44	27.07	109.2	1.404	
400.	8.57	34.40			26.74	139.1	700.	5.82	34.46	27.17	100.1	1.510	
501.	7.36	34.44			26.95	119.8	800.	5.27	34.48	27.25	92.3	1.608	
601.	6.50	34.44			27.07	109.1	1000.	4.45	34.54	27.39	79.5	1.781	
602.	5.26	34.48			27.25	92.1	1200.	3.85	34.57	27.48	71.7	1.934	
1002.	4.44	34.54			27.40	79.4	1500.	3.06	34.59	27.57	62.7	2.139	
1201.	3.85	34.57			27.48	71.6							
1501.	3.06	34.59			27.57	62.7							
CROMWELL		4, STATION	22, 15-59N LAT, 150-59W LONG, MAY	27, 1964, 0900 G.C.T.									
DRY BULB	24.5	WET BULB	21.9	WIND SPEED	16, DIR. 08	BAR. 17	WEATHER 00	VIS. 7	CLOUD	TYPE	,	COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.37	34.55			23.21	467.1	0.	24.37	34.55	23.21	467.1	0.000	
10.	24.38	34.54			23.20	468.5	10.	24.38	34.54	23.20	468.5	0.047	
48.	24.19	34.60			23.30	460.3	20.	24.39	34.55	23.20	468.6	0.094	
72.	23.57	34.62			23.50	442.3	30.	24.36	34.56	23.23	467.1	0.141	
99.	23.26	34.68			23.64	430.4	50.	24.14	34.60	23.32	458.8	0.235	
122.	22.12	34.90			24.13	384.3	75.	23.55	34.62	23.51	441.9	0.348	
147.	19.92	34.98			24.79	322.2	100.	23.23	34.69	23.65	428.8	0.458	
172.	18.81	34.88			25.00	302.9	150.	19.77	34.97	24.82	316.8	0.646	
187.	17.98	34.78			25.13	290.7	200.	16.00	34.55	25.42	262.7	0.793	
219.	12.98	34.27			25.85	221.4	250.	11.26	34.41	26.29	179.9	0.904	
243.	11.52	34.38			26.22	186.7	300.	10.33	34.59	26.59	151.9	0.988	
270.	10.78	34.50			26.45	165.4	400.	9.00	34.54	26.78	135.6	1.133	
292.	10.45*	34.58			26.57	154.4	500.	7.87	34.54	26.95	120.2	1.262	
393.	9.09*	34.54			26.76	136.9	600.	6.92	34.50	27.06	110.6	1.379	
490.	7.98	34.54			26.94	121.4	700.	6.18	34.50	27.15	101.8	1.486	
589.	7.01	34.50			27.04	111.7	800.	5.59	34.51	27.24	94.2	1.585	
784.	5.68	34.51			27.23	95.2	1000.	4.63	34.52	27.36	83.1	1.765	
980.	4.72	34.52			27.35	84.2	1200.	3.87	34.54	27.46	73.8	1.924	
1174.	3.93	34.54			27.45	74.6							
1468.	3.22	34.59			27.56	64.4							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.32

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		4, STATION	23, 14-30N LAT, 151-1W LONG, MAY	27, 1964, 1800 G.C.T.									
DRY BULB	25.4	WET BULB	22.3	WIND SPEED	22, DIR. 05	BAR. 19	WEATHER 02	VIS. 7	CLOUD	TYPE 8, COVER	5		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.74	34.70			22.91	496.1	0.	25.74	34.70	22.91	496.1	0.000	
10.	25.73	34.70			22.91	496.2	10.	25.73	34.70	22.91	496.2	0.050	
30.	25.73	34.70			22.91	497.0	20.	25.73	34.70	22.91	496.5	0.100	
50.	25.73	34.70			22.91	497.8	30.	25.73	34.70	22.91	497.0	0.150	
75.	25.50	34.73			23.01	489.8	50.	25.73	34.70	22.91	497.8	0.250	
100.	22.28	35.04			24.19	377.7	75.	25.50	34.73	23.01	489.8	0.375	
125.	20.39	35.00			24.68	331.9	100.	22.28	35.04	24.19	377.7	0.484	
149.	18.86	34.96			25.05	297.5	150.	18.80	34.95	25.05	296.6	0.654	
176.	16.32	34.59			25.38	266.2	200.	12.97	34.27	25.85	220.8	0.784	
190.	14.05	34.32			25.67	238.1	250.	10.86	34.48	26.41	168.0	0.882	
222.	11.57	34.34			26.18	190.1	300.	10.20	34.56	26.59	151.9	0.963	
246.	10.92	34.46			26.39	170.3	400.	8.39	34.50	26.84	129.1	1.105	
274.	10.60	34.56			26.52	158.0	500.	7.25	34.49	27.00	114.5	1.228	
297.	10.26	34.56			26.58	152.7	600.	6.42	34.50	27.13	103.5	1.338	
396.	8.45	34.50			26.83	129.8	700.	5.73	34.51	27.22	95.2	1.438	
494.	7.31	34.49			26.99	115.2	800.	5.18	34.51	27.29	88.7	1.531	
593.	6.47	34.50			27.12	104.1	1000.	4.35	34.53	27.40	78.6	1.701	
789.	5.23	34.51*			27.28	89.4	1200.	3.68	34.56	27.49	70.3	1.852	
986.	4.40	34.53*			27.39	79.5							
1183.	3.74	34.56*			27.48	70.9							
1480.	3.00	34.60			27.59	61.1							

FROM BT DATA

*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA										
CROWELL	4, STATION	24, 12-58N LAT, 150-59W LONG, MAY	28, 1964, 0300 G.C.T.	DRY BULB	25.4	WET BULB	22.9	WIND SPEED	18, DIR. 06	BAR.	13	WEATHER	02	VIS.	7	CLOUD TYPE	6, COVER	8
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.						
0.	26.44	34.92			22.86	501.1	0.	26.44	34.92	22.86	501.1	0.000						
10.	26.46	34.93			22.88	501.4	10.	26.46	34.93	22.86	501.4	0.050						
30. ^Δ	26.46	34.93			22.86	502.2	20.	26.46	34.93	22.86	501.8	0.101						
50. ^Δ	26.45	34.92			22.85	503.5	30.	26.46	34.93	22.86	502.2	0.152						
74.	26.02	34.90			22.97	493.0	50.	26.45	34.92	22.85	503.5	0.253						
98.	23.59	34.69			23.55	438.8	75.	25.95	34.89	22.99	491.9	0.378						
122.	19.55	34.90			24.82	317.9	100.	23.26	34.71	23.66	428.3	0.494						
147.	16.65	34.58			25.29	273.4	150.	16.19	34.53	25.36	267.0	0.669						
172.	13.12	34.28			25.83	222.2	200.	11.50	34.45	26.27	180.3	0.782						
186.	12.04	34.36			26.10	196.3	250.	10.43	34.55	26.55	155.3	0.867						
219.	11.12	34.54			26.42	167.3	300.	9.80	34.58	26.68	143.3	0.942						
245.	10.54	34.55			26.53	157.1	400.	8.83	34.60	26.85	128.6	1.079						
270.	10.04	34.55			26.61	149.2	500.	7.82	34.56	26.97	117.8	1.203						
295.	9.84	34.58			26.67	144.1	600.	6.82	34.52	27.08	107.9	1.317						
333.	8.90	34.60			26.84	129.4	700.	6.06	34.50	27.17	100.0	1.422						
493.	7.89	34.56			26.97	118.6	800.	5.45	34.50	27.25	93.0	1.520						
50L.	6.90	34.52			27.08	108.7	1000.	4.52	34.54	27.39	80.2	1.695						
788.	5.52	34.50			27.24	93.9	1200.	3.79	34.57	27.49	71.0	1.849						
985.	4.5R	34.54			27.38	81.0												
1181.	3.87	34.58			27.47	72.4												
1478.	3.04	34.60			27.58	61.6												

CROWELL	4, STATION	25, 11-23N LAT, 151-0W LONG, MAY	28, 1964, 1200 G.C.T.	DRY BULB	25.7	WET BULB	23.8	WIND SPEED	20, DIR. 06	BAR.	14	WEATHER	03	VIS.	7	CLOUD TYPE	8, COVER	7
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.						
0.	26.34	34.58			22.63	522.6	0.	26.34	34.58	22.63	522.6	0.000						
8. ^Δ	26.29	34.57			22.64	522.1	10.	26.29	34.57	22.64	522.1	0.053						
30. ^Δ	26.29	34.57			22.64	523.0	20.	28.28	34.57	22.64	522.4	0.105						
50. ^Δ	26.29	34.57			22.64	523.8	30.	26.29	34.57	22.64	523.0	0.158						
75. ^Δ	26.32	34.57			22.63	525.7	50.	26.29	34.57	22.64	523.8	0.263						
88.	24.55	34.63			23.22	469.9	75.	26.32	34.57	22.63	525.7	0.396						
109.	20.15	34.80			24.59	339.7	100.	22.00	34.73	24.04	392.3	0.511						
132.	18.22	34.78			25.07	294.6	150.	16.08	34.54	25.39	263.9	0.678						
155.	15.38	34.46			25.49	254.6	200.	11.77	34.51	26.27	181.0	0.789						
168.	13.37	34.34			25.83	222.6	250.	10.70	34.66	26.58	151.9	0.872						
197.	11.87	34.48			26.23	184.6	300.	9.71	34.61	26.72	139.6	0.946						
221.	11.23	34.66			26.49	160.5	400.	8.55	34.60	26.89	124.3	1.079						
244.	10.84	34.67			26.57	153.4	500.	7.53	34.55	27.01	114.1	1.199						
266.	10.33	34.63			26.63	148.1	600.	6.57	34.52	27.12	104.2	1.310						
350.	9.03	34.62*			26.84	129.2	700.	5.83	34.51	27.21	96.2	1.411						
435.	8.26	34.58*			26.93	121.7	800.	5.25	34.52	27.29	88.8	1.505						
523.	7.27	34.54*			27.04	111.4	1000.	4.29	34.55	27.42	78.6	1.672						
699.	5.84	34.51*			27.21	96.3	1200.	3.60	34.58	27.51	68.0	1.818						
885.	4.83	34.54			27.35	83.1												
1065.	4.03	34.56*			27.46	73.4												
1325.	3.30	34.59*			27.55	64.4												

TEMPERATURE ERROR TERM AT 100. METERS IS 0.18

CROWELL	4, STATION	26, 10-4N LAT, 148-8W LONG, MAY	29, 1964, 0800 G.C.T.	DRY BULB	25.8	WET BULB	24.1	WIND SPEED	14, DIR. 12	BAR.	14	WEATHER	02	VIS.	8	CLOUD TYPE	5, COVER	7
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.						
0.	26.87	34.24			22.21	563.1	0.	26.87	34.24	22.21	563.1	0.000						
10. ^Δ	26.84	34.24			22.22	562.5	10.	26.84	34.24	22.22	562.5	0.057						
30. ^Δ	26.88	34.31			22.32	553.5	20.	26.78	34.27	22.26	559.1	0.113						
50. ^Δ	26.30	34.38			22.49	537.8	30.	26.68	34.31	22.32	553.5	0.169						
52.	26.16	34.39			22.55	532.9	50.	26.30	34.38	22.49	537.8	0.279						
62.	19.94	34.47			24.39	356.6	75.	15.98	34.38	25.29	271.2	0.381						
73.	16.39	34.38			25.20	279.8	100.	13.11	34.59	26.07	197.2	0.440						
82.	14.87	34.39			25.55	246.8	150.	11.12	34.75	26.58	149.9	0.528						
102.	12.99	34.62			26.12	192.9	200.	10.47	34.72	26.67	142.6	0.601						
130.	11.66	34.74			26.47	160.1	250.	10.02	34.71	26.74	136.8	0.672						
155.	11.02	34.75			26.60	148.6	300.	9.70	34.68	26.78	134.3	0.740						
180.	10.65	34.71			26.63	145.7	400.	9.10	34.65	26.85	128.8	0.873						
206.	10.42	34.72			26.68	141.6	500.	8.18	34.59	26.94	121.0	0.999						
263.	9.91	34.70			26.75	135.8	600.	7.16	34.56	27.07	109.5	1.115						
308.	9.66	34.68			26.78	134.1	700.	6.29	34.54	27.17	100.3	1.221						
411.	9.02	34.65			26.86	128.0	800.	5.58	34.52	27.25	93.2	1.319						
513.	8.04	34.58			26.96	119.7	1000.	4.57	34.55	27.39	80.6	1.495						
613.	7.03	34.56			27.09	107.9	1200.	3.83	34.58	27.49	70.9	1.648						
816.	5.48	34.52			27.26	92.2	1500.	3.00	34.61	27.59	60.6	1.848						
1016.	4.51	34.55			27.40	79.7												
1217.	3.78	34.58			27.50	70.2												
1518.	2.96	34.61			27.60	60.1												

FROM BT DATA

*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL		4, STATION 27, 11-38N LAT, 148- 8W LONG, MAY 29, 1964, 1700 G.C.T.	DRY BULB 25.6	WET BULB 23.8	WIND SPEED 21, DIR. 07	BAR. 14	WEATHER 03	VIS. 7	CLOUD	TYPE 4, COVER 8	DEPTH	DYN.DPTH.			
0DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	26.19	34.66			22.74	512.3	0.	26.19	34.66	22.74	512.3	0.000			
10.	26.20	34.66			22.74	513.0	10.	26.20	34.66	22.74	513.0	0.052			
30. ^Δ	26.20	34.66			22.74	513.8	20.	26.20	34.66	22.74	513.5	0.103			
50. ^Δ	26.20	34.66			22.74	514.6	30.	26.20	34.66	22.74	513.8	0.155			
76.	23.22	34.78			23.72	421.2	50.	26.20	34.66	22.74	514.6	0.259			
101.	21.78	35.02			24.31	365.7	75.	23.35	34.77	23.68	425.3	0.377			
125.	19.34	35.02			24.97	304.1	100.	21.83	35.01	24.29	367.8	0.477			
151.	14.80	34.41			25.58	245.9	150.	14.98	34.43	25.56	247.7	0.632			
177.	11.88	34.29			26.08	198.3	200.	11.37	34.52	26.36	172.6	0.738			
193.	11.43	34.45			26.29	178.8	250.	10.96	34.70	26.57	153.2	0.820			
225.	11.30	34.71			26.51	158.1	300.	10.22	34.66	26.67	144.5	0.895			
252.	10.93	34.70			26.57	153.0	400.	8.99	34.62	26.84	129.7	1.033			
279.	10.61	34.72			26.65	146.5	500.	7.76	34.56	26.99	116.5	1.158			
304.	10.14	34.65			26.67	144.2	600.	6.72	34.52	27.10	106.2	1.270			
405.	8.94	34.62			26.85	128.8	700.	5.95	34.52	27.20	97.0	1.373			
507.	7.68	34.56			27.00	115.7	800.	5.35	34.54	27.29	89.0	1.467			
607.	6.66	34.52			27.11	105.5	1000.	4.43	34.56	27.41	77.8	1.636			
808.	5.31	34.54			27.30	88.4	1200.	3.81	34.58	27.49	70.4	1.786			
1010.	4.39	34.56			27.42	77.4	1500.	3.09	34.62	27.59	61.0	1.986			
1210.	3.78	34.58			27.50	70.1									
1512.	3.07	34.62			27.60	60.7									

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL		4, STATION 28, 13- ON LAT, 148- 6W LONG, MAY 30, 1964, 0200 G.C.T.	DRY BULB 26.5	WET BULB 23.7	WIND SPEED 15, DIR. 07	BAR. 14	WEATHER 02	VIS. 7	CLOUD	TYPE 7, COVER 6	DEPTH	DYN.DPTH.			
0DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
1.	25.25	34.69			23.05	482.4	0.	25.25	34.69	23.05	482.4	0.000			
10.	25.24	34.70			23.06	481.8	10.	25.24	34.70	23.06	481.8	0.049			
30. ^Δ	25.24	34.70			23.06	482.6	20.	25.24	34.70	23.06	482.1	0.097			
50. ^Δ	25.22	34.70			23.07	482.8	30.	25.24	34.70	23.06	482.6	0.146			
76.	22.50	34.82			23.96	398.6	50.	25.22	34.70	23.07	482.8	0.243			
102.	20.68	35.09			24.67	332.0	75.	22.62	34.81	23.92	402.4	0.354			
127.	18.40	34.88			25.10	291.5	100.	20.81	35.08	24.62	336.4	0.447			
153.	14.80	34.41			25.58	245.9	150.	15.23	34.46	25.52	251.3	0.596			
179.	11.78	34.36			26.15	191.4	200.	11.45	34.64	26.43	165.4	0.701			
194.	11.49	34.59			26.39	169.6	250.	10.83	34.71	26.60	150.6	0.780			
228.	11.26	34.72			26.53	156.8	300.	10.21	34.67	26.68	143.7	0.854			
255.	10.73	34.70			26.61	149.5	400.	9.14	34.61	26.81	132.8	0.994			
281.	10.43	34.68			26.65	146.4	500.	8.00	34.56	26.95	120.1	1.122			
308.	10.12	34.67			26.69	142.5	600.	6.94	34.54	27.09	107.7	1.237			
409.	9.04	34.60			26.82	132.0	700.	6.12	34.54	27.19	98.1	1.341			
511.	7.87	34.56			26.97	118.6	800.	5.48	34.54	27.27	90.6	1.436			
613.	6.81	34.54			27.10	106.2	1000.	4.53	34.54	27.38	80.6	1.609			
815.	5.40	34.54			27.29	89.7	1200.	3.88	34.58	27.48	71.5	1.763			
1017.	4.47	34.54			27.39	79.9	1500.	3.07	34.59	27.57	62.9	1.968			
1218.	3.83	34.58			27.49	70.8									
1520.	3.03	34.59			27.58	62.5									

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL		4, STATION 29, 14-30N LAT, 147-58W LONG, MAY 30, 1964, 1100 G.C.T.	DRY BULB 25.0	WET BULB 22.9	WIND SPEED 16, DIR. 06	BAR. 15	WEATHER 50	VIS. 7	CLOUD	TYPE 4, COVER 8	DEPTH	DYN.DPTH.			
0DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.63	34.74			22.97	490.0	0.	25.63	34.74	22.97	490.0	0.000			
10.	25.64	34.74			22.97	490.6	10.	25.64	34.74	22.97	490.6	0.049			
30. ^Δ	25.64	34.74			22.97	491.4	20.	25.64	34.74	22.97	491.1	0.099			
48.	25.65	34.74			22.97	492.5	30.	25.64	34.74	22.97	491.4	0.148			
75.	24.70	34.57			23.13	478.1	50.	25.62	34.72	22.96	493.1	0.247			
99.	22.61	34.83			23.94	401.7	75.	24.70	34.57	23.13	478.1	0.370			
123.	19.99	34.71			24.56	342.6	100.	22.50	34.83	23.97	399.0	0.480			
149.	17.64	34.67			25.13	289.5	150.	17.48	34.65	25.15	286.9	0.653			
173.	13.93	34.32			25.70	235.3	200.	12.10	34.32	26.06	201.0	0.776			
190.	12.66	34.30			25.94	212.4	250.	10.72	34.45	26.42	167.6	0.869			
222.	11.25	34.38			26.27	181.4	300.	9.97	34.52	26.60	150.8	0.949			
247.	10.75	34.44			26.40	168.8	400.	8.63	34.49	26.80	133.4	1.093			
274.	10.51	34.53			26.52	150.7	500.	7.60	34.48	26.94	120.4	1.221			
298.	10.00	34.52			26.60	151.3	600.	6.44	34.44	27.07	108.3	1.336			
397.	8.66	34.49			26.79	133.8	700.	5.69	34.45	27.18	98.7	1.441			
497.	7.64	34.48			26.94	120.8	800.	5.15	34.48	27.27	90.7	1.537			
596.	6.48	34.44			27.07	108.8	1000.	4.28	34.52	27.40	78.8	1.708			
795.	5.18	34.48			27.26	91.0	1200.	3.63	34.56	27.50	69.7	1.858			
993.	4.31	34.52			27.39	79.1									
1191.	3.69	34.56			27.49	70.3									
1488.	2.97	34.61			27.60	60.1									

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 4, STATION 30, 16- IN LAT, 147-56W LONG, MAY 30, 1964, 2000 G.C.T. DRY BULB 27.3 WET BULB 23.0 WIND SPEED 14, DIR. 06				30, 1964, 0500 G.C.T. 8000 16 WEATHER 01 V15. 7 CLOUD TYPE 6, COVER 7								
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	24.74	34.61			23.15	473.4	0.	24.74	34.61	23.15	473.4	0.000
9.	24.73	34.62			23.16	472.7	10.	24.70	34.62	23.17	471.7	0.048
30.	23.86	34.71			23.48	442.3	20.	24.33	34.66	23.31	458.8	0.094
48.	23.32	34.79			23.70	422.2	30.	23.86	34.71	23.48	442.3	0.140
73.	22.45	34.95			24.07	387.7	50.	23.25	34.80	23.73	419.5	0.227
97.	21.64	35.12			24.42	356.0	75.	22.38	34.97	24.11	384.7	0.328
120.	21.33	35.20			24.58	341.6	100.	21.66	35.14	24.44	354.1	0.421
145.	19.73	35.06			24.90	311.6	150.	19.33	35.00	24.95	306.2	0.587
169.	17.52	34.73			25.20	283.0	200.	13.76	34.35	25.75	230.6	0.723
185.	15.56	34.50			25.48	256.4	250.	9.85	34.19	26.36	172.3	0.824
216.	12.04	34.24			26.01	205.8	300.	9.53	34.35	26.55	155.9	0.907
239.	10.22	34.18			26.29	178.9	400.	8.70	34.51	26.80	133.3	1.053
267.	9.62	34.23			26.43	165.7	500.	7.36	34.44	26.95	119.8	1.181
290.	9.57	34.32			26.51	158.8	600.	6.44	34.46	27.09	106.7	1.295
386.	8.88	34.51			26.77	135.6	700.	5.77	34.47	27.19	98.2	1.399
485.	7.53	34.44			26.92	122.0	800.	5.23	34.49	27.26	91.2	1.494
582.	6.58	34.46			27.07	108.5	1000.	4.27	34.53	27.41	77.7	1.665
775.	5.37	34.48			27.24	93.2	1200.	3.57	34.57	27.51	68.5	1.813
967.	4.40	34.53			27.39	79.3						
1162.	3.72	34.55			27.48	71.2						
1456.	3.00	34.61			27.60	60.2						
CROMWELL 4, STATION 31, 17-34N LAT, 148- 4W LNG, MAY 31, 1964, 0500 G.C.T. DRY BULB 24.0 WET BULB 21.8 WIND SPEED 19, DIR. 08				31, 1964, 0500 G.C.T. 8000 16 WEATHER 01 V15. 8 CLOUD TYPE 3, COVER 3								
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	24.14	34.67			23.37	452.0	0.	24.14	34.67	23.37	451.9	0.000
11.	24.09	34.66			23.38	451.7	10.	24.10	34.66	23.38	451.9	0.046
48.	23.15	34.78			23.74	418.2	20.	23.90	34.67	23.44	446.1	0.091
73.	22.72	35.00			24.03	391.5	30.	23.66	34.69	23.53	438.0	0.135
97.	22.22	35.07			24.23	373.8	50.	23.11	34.80	23.77	416.0	0.221
120.	21.65	35.14			24.39	359.7	75.	22.68	35.01	24.05	389.8	0.323
144.	20.24	35.13			24.82	319.3	100.	22.20	35.08	24.24	372.6	0.419
168.	18.85	34.94			25.03	299.4	150.	19.93	35.10	24.87	314.0	0.592
182.	17.52	34.74			25.21	282.7	200.	15.40	34.46	25.49	256.4	0.736
214.	13.78	34.28			25.70	236.3	250.	11.16	34.19	26.14	194.1	0.849
239.	11.75	34.18			26.02	205.5	300.	9.99	34.62	26.67	144.1	0.934
263.	10.65	34.26			26.28	180.7	400.	8.66	34.47	26.78	135.2	1.075
289.	10.17	34.58***			26.61	149.5	500.	7.54	34.46	26.94	121.0	1.205
384.	8.86	34.48			26.75	137.5	600.	6.59	34.46	27.07	108.7	1.321
480.	7.76	34.46			26.91	123.8	700.	5.90	34.47	27.17	99.9	1.426
576.	6.78	34.46			27.04	111.2	800.	5.36	34.48	27.25	93.0	1.524
767.	5.53	34.48			27.22	95.2	1000.	4.47	34.52	27.37	81.4	1.700
959.	4.63	34.51*			27.35	83.6	1200.	3.75	34.55	27.48	71.8	1.855
1149.	3.93	34.54			27.45	74.4						
1436.	3.11	34.60			27.56	62.1						
CROMWELL 4, STATION 32, 1H-59N LAT, 147-57W LNG, MAY 31, 1964, 1400 G.C.T. DRY BULB 23.6 WET BULB 20.9 WIND SPEED 15, DIR. 08				31, 1964, 1400 G.C.T. 8000 17 WEATHER 00 V15. 8 CLOUD TYPE , COVER								
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.85	34.59			23.40	449.5	0.	23.85	34.59	23.40	449.5	0.000
9.	23.86	34.56			23.37	452.3	10.	23.87	34.56	23.37	452.8	0.045
43.	23.64	34.54			23.42	448.9	20.	23.91	34.54	23.34	456.0	0.091
65.	22.51	34.62			23.81	412.9	30.	23.86	34.53	23.35	455.3	0.137
87.	21.81	34.74			24.09	386.2	50.	23.30	34.56	23.53	438.3	0.227
108.	21.01	34.92			24.43	355.3	75.	22.17	34.67	23.94	400.6	0.333
130.	19.57	34.93			24.85	315.2	100.	21.42	34.86	24.29	367.9	0.430
151.	18.56	34.82			25.02	300.0	150.	18.60	34.83	25.01	300.6	0.598
163.	17.39	34.66			25.18	284.9	200.	14.60	34.38	25.60	245.3	0.736
192.	15.30	34.46			25.51	253.9	250.	11.41	34.23	26.12	195.7	0.847
214.	13.47	34.27			25.75	230.9	300.	9.18	34.11	26.41	168.2	0.939
235.	12.45	34.29			25.97	210.3	400.	7.47	34.19	26.73	138.4	1.093
257.	10.92	34.20			26.19	189.6	500.	6.52	34.34	26.98	115.4	1.221
340.	8.35	34.10			26.54	156.8	600.	5.85	34.40	27.12	103.1	1.332
421.	7.27	34.23			26.80	132.7	700.	5.31	34.44	27.21	94.9	1.432
501.	6.51	34.34			26.99	115.2	800.	4.82	34.47	27.30	87.1	1.524
662.	5.52	34.42			27.18	98.3	1000.	4.04	34.52	27.43	75.6	1.688
825.	4.71	34.48			27.32	85.4	1200.	3.50	34.55	27.50	68.5	1.834
990.	4.09	34.52			27.42	76.4						
1274.	3.36	34.56			27.52	67.0						

TEMPERATURE ERROR TERM AT 300. METERS IS 0.15

ΔFROM BT DATA
*INTERPOLATED DATA
**SAMPLE BOTTLE CRACKED

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA						
CROMWELL		4, STATION 33, 20-30N LAT, 147-59W LONG, MAY 31, 1964, 2300 G.C.T.		DRY BULB 24.1 WET BULB 20.7 WIND SPEED 20, CIR. 08		BAR. 2C WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SIGMA-T	DELTA	DYN.OPTH.
0.	23.69	34.56			23.42	44.7.2	0.	23.69	34.56	23.42	44.7.2		0.000	
10.	23.56	34.55			23.45	44.7	10.	23.56	34.55	23.45	44.7		0.045	
51.	22.42	34.84			24.00	39.40	20.	23.30	34.61	23.57	43.9		0.089	
77.	21.97	34.92			24.19	37.7.1	30.	23.03	34.67	23.70	42.1		0.132	
102.	21.70	35.16			24.44	35.3.6	50.	22.45	34.83	23.98	39.5		0.215	
128.	21.35	35.18			24.55	34.3.8	75.	22.00	34.91	24.17	37.8		0.312	
154.	21.15	35.22			24.64	33.6.7	100.	21.72	35.14	24.42	35.3		0.405	
179.	20.15	35.18			24.88	31.4.7	150.	21.20	35.22	24.62	33.8		0.579	
195.	18.99	34.98			25.03	300.8	200.	18.59	34.91	25.07	29.6		0.739	
228.	16.29	34.60			25.39	266.4	250.	14.62	34.60	25.76	231		0.972	
256.	14.19	34.59			25.85	223.1	300.	11.52	34.13	26.02	206		0.983	
283.	12.43	34.22			25.92	216.2	400.	8.27	34.09	26.54	157		1.166	
307.	11.18	34.11			26.07	201.9	500.	6.58	34.21	26.87	126		1.309	
409.	8.10	34.11			26.58	153.5	600.	5.91	34.33	27.06	109		1.428	
510.	6.47	34.22			26.90	123.7	700.	5.39	34.41	27.18	97		1.533	
610.	5.87	34.34			27.07	108.1	800.	4.92	34.46	27.28	89		1.627	
813.	4.86	34.46*			27.29	88.6	1000.	4.20	34.51	27.40	78		1.798	
1015.	4.16	34.51			27.40	78.2	1200.	3.64	34.54	27.48	71		1.950	
1213.	3.61	34.54			27.48	71.0	1500.	2.93	34.58	27.58	61		2.153	
1514.	2.90	34.58			27.58	61.6								
CROMWELL				4, STATION 34, 22-3N LAT, 147-58W LONG, JUNE 1, 1964, 1400 G.C.T.		DRY BULB 22.5 WET BULB 19.0 WIND SPEED 10, CIR. 07		BAR. 21 WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	EXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SIGMA-T	DELTA	DYN.CPTH.
0.	23.32	34.78			23.69	421.0	0.	23.32	34.78	23.69	421.0		0.000	
11.	23.33	34.78			23.69	421.7	10.	23.33	34.78	23.69	421.8		0.042	
57.	22.64	35.09			24.13	382.2	20.	23.24	34.83	23.76	415.9		0.085	
82.	22.24	35.14			24.28	368.7	30.	23.12	34.89	23.84	408.4		0.126	
108.	21.66	35.14			24.44	354.2	50.	22.79	35.04	24.04	389.8		0.207	
137.	21.16	35.22			24.64	336.3	75.	22.36	35.13	24.24	372.2		0.303	
163.	20.34	35.14			24.80	321.8	100.	21.84	35.14	24.39	358.7		0.395	
189.	18.92	35.00			25.06	297.4	150.	20.81	35.19	24.71	329.6		0.568	
215.	17.41	34.79			25.27	277.6	200.	18.31	34.92	25.15	289.0		0.724	
241.	15.91	34.53			25.52	254.8	250.	14.90	34.45	25.59	247.7		0.859	
269.	13.67	34.31			25.74	233.4	300.	11.78	34.14	25.98	210.6		0.975	
294.	12.10	34.16			25.94	214.7	400.	8.45	34.04	26.48	163.6		1.164	
322.	10.74	34.05			26.13	196.8	500.	6.35	34.06	26.79	133.4		1.314	
428.	7.91	34.06			26.57	154.7	600.	5.17	34.18	27.02	111.2		1.437	
534.	5.77	34.08			26.88	125.1	700.	4.70	34.32	27.19	95.7		1.542	
637.	4.98	34.24			27.10	104.5	800.	4.39	34.42	27.31	85.4		1.633	
847.	4.30	34.46			27.35	82.1	1000.	3.87	34.51	27.43	74.5		1.795	
1054.	3.74	34.52			27.45	72.7	1200.	3.43	34.56	27.51	67.4		1.939	
1259.	3.31	34.57			27.53	65.5	1500.	2.82	34.60	27.60	59.3		2.131	
1565.	2.71	34.60			27.61	58.1								
CROMWELL				4, STATION 35, 23-32N LAT, 147-59W LONG, JUNE 1, 1964, 2200 G.C.T.		DRY BULB 23.0 WET BULB 19.4 WIND SPEED 15, CIR. 11		BAR. 22 WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 1		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SIGMA-T	DELTA	DYN.OPTH.
0.	23.44	35.08			23.89	402.7	0.	23.44	35.08	23.89	402.7		0.000	
10.	22.99	35.05			24.01	391.2	10.	22.93	35.05	24.01	391.2		0.040	
51.	22.11	35.19			24.35	360.4	20.	22.65	35.07	24.11	382.5		0.079	
77.	21.42	35.22			24.57	340.9	30.	22.42	35.10	24.19	374.6		0.117	
103.	21.38	35.24			24.59	339.4	50.	22.12	35.18	24.34	361.0		0.191	
127.	21.02	35.29			24.73	327.2	75.	21.46	35.22	24.55	342.1		0.280	
154.	20.59	35.29			24.84	317.1	100.	21.38	35.24	24.59	339.4		0.366	
179.	20.20	35.26			24.93	310.2	150.	20.65	35.29	24.83	318.4		0.531	
195.	19.75	35.18*			24.98	305.2	200.	19.48	35.13	25.02	302.2		0.668	
229.	17.66	34.82			25.24	281.7	250.	16.50	34.65	25.38	268.3		0.832	
256.	16.14	34.60			25.43	263.9	300.	12.69	34.22	25.87	221.2		0.955	
283.	13.92	34.34*			25.71	236.6	400.	9.07	34.06	26.39	172.1		1.153	
308.	12.16	34.18			25.94	214.7	500.	6.63	34.01	26.71	141.0		1.311	
410.	8.91	34.07			26.43	168.9	600.	5.18	34.34	27.15	99.3		1.433	
512.	6.38	34.02			26.75	137.3	700.	4.58	34.43	27.30	85.9		1.526	
613.	5.06	34.39			27.21	94.1	800.	4.36	34.39	27.28	87.8		1.614	
815.	4.36	34.37			27.27	89.1	1000.	3.95	34.48	27.40	77.9		1.782	
1017.	3.92	34.49			27.41	76.8	1200.	3.48	34.51	27.47	71.6		1.933	
1218.	3.44	34.51			27.47	71.2	1500.	2.92	34.56	27.56	63.3		2.138	
1519.	2.89	34.56			27.57	63.0								

*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 4, STATION 36, 25- ON LAT, 147-59W LENG, JUNE 2, 1964, 0800 G.C.T. DRY BULB 23.0 WET BULB 20.5 WIND SPEED 11, OIR. 13 BAR. 23 WEATHER 02								V15. 9				
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
1.	22.98	35.24			24.14	378.5	0.	22.98	35.24	24.14	378.5	0.000
10.	22.32	35.28			24.36	358.0	10.	22.32	35.28	24.36	358.0	0.037
49.	21.14	35.33			24.73	324.6	20.	21.16	35.30	24.51	344.4	0.072
75.	20.95	35.34			24.79	319.9	30.	21.51	35.32	24.62	334.4	0.107
99.	20.73	35.32			24.83	316.5	50.	21.13	35.33	24.73	324.3	0.173
123.	20.36	35.28			24.90	310.8	75.	20.95	35.34	24.79	319.9	0.254
147.	19.52	35.14			25.01	300.6	100.	20.72	35.32	24.83	316.3	0.334
171.	18.63	34.97			25.11	292.0	150.	19.42	35.12	25.02	299.7	0.489
186.	17.88	34.86			25.21	282.6	200.	16.92	34.72	25.34	271.1	0.633
219.	15.47	34.52			25.52	254.0	250.	13.34	34.30	25.80	227.2	0.759
245.	13.51	34.31			25.77	230.0	300.	11.30	34.12	26.06	202.9	0.867
270.	12.68	34.26			25.90	217.7	400.	8.69	34.07	26.46	165.1	1.053
293.	11.55	34.14			26.03	206.1	500.	6.52	34.02	26.74	138.7	1.206
392.	8.90	34.08			26.43	167.7	600.	5.37	34.10	26.94	119.2	1.337
490.	6.67	34.02			26.71	140.9	700.	4.67	34.21	27.11	103.7	1.449
588.	5.48	34.09			26.92	121.3	800.	4.27	34.32	27.24	91.9	1.548
783.	4.32	34.30			27.22	93.5	1000.	3.89	34.47	27.40	77.7	1.720
978.	3.93	34.46			27.39	78.8	1200.	3.47	34.54	27.50	69.0	1.868
1172.	3.53	34.52			27.47	71.2						
1466.	2.90	34.56			27.57	62.7						

CROMWELL 4, STATION 37, 26-29N LAT, 148-0W LENG, JUNE 2, 1964, 1700 G.C.T. DRY BULB 22.2 WET BULB 20.1 WIND SPEED 11, OIR. 22 BAR. 21 WEATHER 01				V15. 9				CLOUD TYPE 8, COVER 2				
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	22.33	35.32			24.39	355.0	0.	22.33	35.32	24.39	355.0	0.000
9.	22.24	35.29			24.39	355.1	10.	22.22	35.29	24.39	354.8	0.036
48.	21.39	35.29			24.63	334.0	20.	22.04	35.28	24.44	350.9	0.071
73.	20.85	35.29			24.77	320.8	30.	21.83	35.28	24.50	345.8	0.106
97.	20.49	35.29			24.87	312.4	50.	21.34	35.29	24.64	332.8	0.175
119.	19.94	35.22			24.96	304.3	75.	20.82	35.29	24.78	320.1	0.257
145.	18.95	35.02			25.07	295.2	100.	20.43	35.29	24.88	311.3	0.337
168.	17.71	34.82			25.22	280.9	150.	18.72	34.98	25.09	292.8	0.489
182.	16.66	34.68			25.37	267.4	200.	15.34	34.50	25.53	252.1	0.626
214.	14.40	34.38			25.64	241.6	250.	12.54	34.21	25.89	218.2	0.745
240.	13.03	34.26			25.83	223.7	300.	11.04	34.13	26.11	198.0	0.850
263.	12.00	34.16			25.96	212.1	400.	8.32	34.04	26.49	162.1	1.031
287.	11.40	34.14			26.05	203.2	500.	6.42	34.02	26.75	137.6	1.183
381.	8.80	34.05			26.43	168.1	600.	5.49	34.10	26.93	120.6	1.313
475.	6.74	34.01			26.70	142.4	700.	4.77	34.21	27.10	104.7	1.427
567.	5.78	34.07			26.87	126.4	800.	4.29	34.32	27.23	92.2	1.526
751.	4.49	34.27			27.18	97.5	1000.	3.78	34.45	27.39	78.1	1.699
939.	3.91	34.42			27.36	81.2	1200.	3.36	34.53	27.49	68.9	1.848
1125.	3.56	34.49			27.45	73.4						
1410.	3.00	34.56			27.56	63.6						

CROMWELL 4, STATION 38, 25- ON LAT, 151-0W LENG, JUNE 3, 1964, 1100 G.C.T. DRY BULB 23.3 WET BULB 21.7 WIND SPEED 16, OIR. 25 BAR. 18 WEATHER 02				V15. 8				CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
2.	23.26	35.22			24.05	387.7	0.	23.26	35.22	24.05	387.6	0.000
9.	23.26	35.24			24.06	386.5	10.	23.22	35.24	24.07	385.2	0.039
30.	22.14	35.30			24.43	352.5	20.	22.73	35.27	24.24	370.3	0.077
42.	21.77	35.33			24.55	340.9	30.	22.14	35.30	24.43	352.5	0.113
67.	21.37	35.34			24.67	330.5	50.	21.61	35.34	24.60	336.3	0.183
88.	21.06	35.30			24.73	326.1	75.	21.29	35.33	24.69	329.3	0.267
109.	20.00	35.14			24.89	311.3	100.	20.50	35.22	24.81	318.3	0.348
131.	18.81	34.98			25.07	294.2	150.	17.99	34.87	25.19	283.2	0.500
152.	17.91	34.86			25.21	282.1	200.	14.85	34.49	25.63	242.3	0.632
167.	17.18	34.76			25.31	272.9	250.	12.56	34.30	25.96	211.7	0.747
193.	15.25	34.54			25.58	247.1	300.	11.25	34.23	26.15	194.5	0.849
216.	14.03	34.40			25.74	232.6	400.	9.23	34.10	26.40	171.4	1.034
240.	12.88	34.32			25.91	216.4	500.	6.68	34.02	26.71	141.4	1.192
261.	12.26	34.29			26.01	207.4	600.	5.21	34.07	26.94	119.5	1.323
345.	10.25	34.16			26.27	183.0	700.	4.68	34.20	27.10	104.5	1.437
429.	8.67	34.08			26.47	164.8	800.	4.27	34.31	27.23	92.7	1.536
513.	6.33	34.01			26.75	137.4	1000.	3.73	34.46	27.41	76.4	1.707
683.	4.77	34.18			27.07	106.9	1200.	3.28	34.54	27.51	67.3	1.853
855.	4.12	34.36			27.29	87.4						
1031.	3.66	34.48			27.43	74.6						
1308.	3.11	34.54			27.53	65.7						

TEMPERATURE ERROR TERM AT 600. METERS IS 0.14

APROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL	4, STATION	39, 24-56N LAT, 153-59W LENG, JUNE	4, 1964, 0200 G.C.T.	4, STATION	39, 24-56N LAT, 153-59W LENG, JUNE	4, 1964, 0200 G.C.T.	4, STATION	39, 24-56N LAT, 153-59W LENG, JUNE	4, 1964, 0200 G.C.T.	4, STATION	39, 24-56N LAT, 153-59W LENG, JUNE	4, 1964, 0200 G.C.T.			
DRY BULB	23.5	WET BULB 20.1	WIND SPEED 12, DIR. 33	DRY BULB	23.5	WET BULB 20.1	WIND SPEED 12, DIR. 33	DRY BULB	23.5	WET BULB 20.1	WIND SPEED 12, DIR. 33	DRY BULB	23.5	WET BULB 20.1	WIND SPEED 12, DIR. 33
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELT	DEPTH	TEMP.	SAL.	SIGMA-T	DELT	DYN. DPTH.			
0.	24.09	35.07**			23.69	421.7	0.	24.09	35.07	23.69	421.7	0.000			
10.	23.82	34.99			23.71	420.2	10.	23.82	34.99	23.71	420.2	0.042			
50.	23.36	34.98			23.83	409.6	20.	23.69	34.96	23.72	419.4	0.085			
79.	22.59	35.06			24.12	383.5	20.	23.57	34.95	23.75	417.3	0.127			
103.	21.56	35.06			24.41	357.1	50.	23.36	34.98	23.83	409.6	0.210			
129.	20.38	35.03			24.70	329.6	75.	22.71	35.05	24.07	387.8	0.311			
154.	19.28	35.02			24.98	303.6	100.	21.70	35.06	24.37	360.5	0.405			
180.	18.05	34.89			25.19	284.2	150.	19.46	35.02	24.94	307.5	0.573			
195.	17.26	34.80*			25.32	272.8	200.	17.01	34.77	25.35	269.6	0.719			
230.	15.45	34.56			25.55	251.0	250.	14.29	34.43	25.70	236.6	0.846			
257.	13.90	34.39			25.76	231.8	300.	11.90	34.20	26.01	208.0	0.958			
284.	12.67	34.27			25.91	217.1	400.	8.95	34.06	26.41	170.2	1.149			
308.	11.52	34.17			26.05	203.7	500.	6.92	34.02	26.68	144.4	1.308			
410.	8.77	34.06			26.44	167.5	600.	5.53	34.07	26.90	123.7	1.443			
512.	6.71	34.02			26.71	141.8	700.	4.72	34.17	27.07	107.1	1.560			
613.	5.40	34.08			26.92	121.3	800.	4.24	34.28	27.21	94.0	1.662			
814.	4.20	34.30			27.23	92.4	1000.	3.84	34.45	27.39	78.7	1.836			
1018.	3.82	34.46			27.40	77.8	1200.	3.41	34.52	27.48	70.2	1.987			
1219.	3.37	34.52			27.49	69.6	1500.	2.82	34.56	27.57	61.9	2.188			
1521.	2.78	34.56			27.58	61.6									

CROMWELL	4, STATION	40, 25- ON LAT, 157- 1W LENG, JUNE	4, 1964, 1900 G.C.T.	4, STATION	40, 25- ON LAT, 157- 1W LENG, JUNE	4, 1964, 1900 G.C.T.	4, STATION	40, 25- ON LAT, 157- 1W LENG, JUNE	4, 1964, 1900 G.C.T.	4, STATION	40, 25- ON LAT, 157- 1W LENG, JUNE	4, 1964, 1900 G.C.T.			
DRY BULB	23.3	WET BULB 19.4	WIND SPEED 02, DIR. 27	DRY BULB	23.3	WET BULB 19.4	WIND SPEED 02, DIR. 27	DRY BULB	23.3	WET BULB 19.4	WIND SPEED 02, DIR. 27	DRY BULB	23.3	WET BULB 19.4	WIND SPEED 02, DIR. 27
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELT	DEPTH	TEMP.	SAL.	SIGMA-T	DELT	DYN. DPTH.			
0.	23.71	35.28			23.96	395.8	0.	23.71	35.28	23.96	395.8	0.000			
10.	23.48	35.28			24.03	389.8	10.	23.48	35.28	24.03	389.8	0.040			
51.	22.30	35.30			24.38	357.6	20.	23.17	35.28	24.12	381.3	0.078			
76.	22.05	35.32			24.47	350.4	30.	22.87	35.29	24.21	373.2	0.116			
102.	21.45	35.31			24.63	336.1	50.	22.33	35.30	24.37	358.3	0.190			
126.	20.62	35.22			24.78	321.9	75.	22.06	35.32	24.46	350.6	0.279			
152.	19.22	35.04			25.01	300.6	100.	21.51	35.31	24.61	337.4	0.366			
177.	18.01	34.86			25.18	285.3	150.	19.31	35.06	25.00	302.2	0.527			
192.	17.29	34.78			25.29	274.8	200.	16.97	34.74	25.34	270.8	0.672			
226.	15.82	34.60			25.50	256.0	250.	14.22	34.46	25.74	233.2	0.799			
253.	14.02	34.44			25.77	230.5	300.	12.09	34.25	26.01	208.1	0.910			
278.	12.94	34.34			25.91	217.1	400.	9.07	34.08	26.41	170.3	1.101			
305.	11.91	34.23			26.03	206.3	500.	6.61	34.00	26.71	141.7	1.258			
405.	8.94	34.08			26.43	168.6	600.	5.19	34.10	26.96	116.8	1.389			
500.	6.61	34.00			26.71	141.7	700.	4.68	34.21	27.10	104.0	1.501			
578.	5.37	34.08			26.93	120.5	800.	4.37	34.30	27.21	94.5	1.601			
735.	4.02	34.24			27.14	101.1	1000.	3.73	34.44	27.39	78.4	1.776			
891.	4.07	34.37			27.30	86.4	1200.	3.23	34.52	27.50	67.7	1.924			
1048.	3.60	34.46			27.42	75.5									
1283.	3.06	34.54			27.53	64.9									

CROMWELL	4, STATION	41, 23-30N LAT, 156-59W LENG, JUNE	5, 1964, 0500 G.C.T.	4, STATION	41, 23-30N LAT, 156-59W LENG, JUNE	5, 1964, 0500 G.C.T.	4, STATION	41, 23-30N LAT, 156-59W LENG, JUNE	5, 1964, 0500 G.C.T.	4, STATION	41, 23-30N LAT, 156-59W LENG, JUNE	5, 1964, 0500 G.C.T.			
DRY BULB	24.0	WET BULB 20.0	WIND SPEED 05, DIR. 20	DRY BULB	24.0	WET BULB 20.0	WIND SPEED 05, DIR. 20	DRY BULB	24.0	WET BULB 20.0	WIND SPEED 05, DIR. 20	DRY BULB	24.0	WET BULB 20.0	WIND SPEED 05, DIR. 20
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELT	DEPTH	TEMP.	SAL.	SIGMA-T	DELT	DYN. DPTH.			
0.	24.58	35.14			23.59	430.6	0.	24.58	35.14	23.59	430.6	0.000			
10.	24.15	35.10			23.69	421.6	10.	24.15	35.10	23.69	421.6	0.043			
30.	23.88	35.12			23.79	413.3	20.	23.96	35.10	23.75	416.8	0.085			
52.	23.61	35.18			23.91	402.3	30.	23.88	35.12	23.79	413.3	0.127			
78.	23.42	35.20			23.98	396.5	50.	23.63	35.17	23.90	403.2	0.209			
104.	22.70	35.18			24.18	379.1	75.	23.45	35.20	23.97	397.3	0.310			
129.	22.52	35.18			24.23	375.2	100.	22.81	35.18	24.15	381.7	0.408			
154.	20.19	35.08			24.75	322.0	150.	20.61	35.10	24.70	331.0	0.588			
181.	18.63	34.93			25.08	295.2	200.	17.41	34.82	25.30	274.6	0.740			
196.	17.65	34.85			25.26	278.2	250.	14.13	34.44	25.75	232.3	0.868			
230.	15.54	34.60			25.56	250.0	300.	11.62	34.20	26.06	203.1	0.978			
256.	13.72	34.40			25.80	227.5	400.	9.00	34.13	26.46	165.7	1.164			
282.	12.33	34.24			25.96	212.8	500.	7.17	34.10	26.71	142.1	1.319			
308.	11.34	34.19			26.10	199.0	600.	5.89	34.17	26.93	121.1	1.452			
408.	8.85	34.13			26.48	163.5	700.	4.99	34.26	27.11	104.0	1.566			
506.	7.08	34.10			26.72	140.9	800.	4.40	34.35	27.25	90.9	1.665			
604.	5.85	34.17			26.94	120.3	1000.	3.87	34.48	27.41	76.6	1.834			
799.	4.40	34.35			27.25	90.9	1200.	3.42	34.55	27.51	67.5	1.980			
992.	3.89	34.48			27.41	77.0									
1187.	3.45	34.54*			27.50	68.9									
1479.	2.89	34.59			27.59	60.5									

FROM ST DATA
*INTERPOLATED DATA
**SAMPLE BOTTLE CRACKED

Table 1.--Continued

ORIGINAL DATA			DERIVED DATA			INTERPOLATED DATA					
CROMWELL 4, STATION 42, 22° ON LAT, 157° ZW LCNG, JUNE 5, 1964, 1500 G.C.T.			WET BULB 21.0 WIND SPEED 15, DIR. 05			BAR. 19 WEATHER 02			VIS. 8	CLOUD TYPE 8, COVER 1	DYN. DPTH.
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	DYN. DPTH.
0.	24.30	34.71			23.35	453.6	0.	24.30	34.71	23.35	453.6 0.000
11.△	24.31	34.71			23.35	454.3	10.	24.33	34.71	23.35	454.8 0.046
30.△	23.40	34.76			23.66	425.9	20.	23.90	34.73	23.49	441.7 0.091
50.	23.27	34.79			23.72	420.9	30.	23.40	34.76	23.66	425.9 0.135
76.	23.03	34.93			23.29	405.1	50.	23.27	34.79	23.72	420.9 0.220
101.	22.80	35.00			24.01	394.7	75.	23.04	34.92	23.89	405.8 0.324
126.	22.65	35.07			24.11	386.5	100.	22.81	35.00	24.01	395.1 0.425
151.	21.92	35.16			24.38	361.2	150.	21.96	35.16	24.37	362.4 0.616
174.	20.94	35.14			24.64	337.7	200.	20.04	35.08	24.83	320.0 0.788
191.	20.31	35.10			24.77	325.0	250.	17.39	34.77	25.26	279.9 0.939
223.	19.16	34.98			24.98	305.9	300.	13.24	34.29	25.81	227.5 1.067
253.	17.16	34.74			25.30	276.7	400.	9.07	34.15	26.46	165.7 1.265
277.	15.35	34.57			25.58	249.5	500.	7.15	34.14	26.74	139.0 1.419
302.	13.06	34.26			25.83	225.9	600.	5.99	34.20	26.94	120.0 1.550
401.	9.06	34.15			26.46	165.2	700.	5.30	34.30	27.11	104.9 1.663
502.	7.13	34.14			26.74	138.6	800.	4.87	34.40	27.24	93.1 1.764
601.	5.98	34.20			26.94	119.8	1000.	4.15	34.49	27.39	79.5 1.938
802.	4.86	34.40			27.24	92.9	1200.	3.57	34.53	27.48	71.1 2.091
1001.	4.15	34.49			27.39	79.5					
1200.	3.57	34.53			27.48	71.1					
1497.	2.90	34.58			27.58	61.5					

Table 2.--Original and derived oceanographic data for Townsend Cromwell cruise 5

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 5, STATION 1, 20-35N LAT, 157-16W LONG, JUNE 16, 1964, 0800 G.C.T.		WET BULB 22.2		WIND SPEED 16, DIR. 12		BAR. 17		WEATHER 01		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	DYN. DPTH.
0.	25.77	34.78			22.96	491.2	0.	25.77	34.78	22.96	491.2	0.000	
11.	25.75	34.78			22.97	491.1	10.	25.77	34.78	22.96	491.4	0.049	
30.6	24.96	34.76			23.19	470.1	20.	25.39	34.77	23.07	481.5	0.098	
48.	24.88	34.76			23.22	468.5	30.	24.96	34.76	23.19	470.1	0.146	
74.	24.49	34.73			23.31	460.5	50.	24.87	34.75	23.21	469.0	0.241	
98.	23.53	35.15			23.91	404.0	75.	24.46	34.75	23.34	458.3	0.358	
122.	22.41	35.11			24.21	377.0	100.	23.45	35.16	23.94	401.5	0.466	
147.	20.68	35.09			24.67	333.6	150.	20.55	35.08	24.70	330.9	0.651	
170.	19.72	35.02			24.87	315.1	200.	18.28	34.90	25.15	289.3	0.807	
184.	18.90	34.96			25.03	299.7	250.	14.98	34.53	25.63	243.6	0.941	
217.	17.52	34.82			25.27	278.0	300.	11.79	34.25	26.07	202.6	1.054	
242.	15.41	34.58			25.58	249.0	400.	8.26	34.14	26.58	153.6	1.233	
268.	14.06	34.44			25.76	231.7	500.	6.49	34.20	26.88	125.1	1.374	
292.	12.24	34.28			26.00	208.5	600.	5.76	34.30	27.05	109.8	1.493	
388.	8.58	34.14			26.53	158.2	700.	5.23	34.38	27.18	97.6	1.598	
486.	6.64	34.19			26.85	127.9	800.	4.83	34.45	27.28	88.9	1.692	
583.	5.87	34.28			27.02	112.2	1000.	4.20	34.51	27.39	78.9	1.862	
778.	4.91	34.44			27.26	90.3	1200.	3.58	34.55	27.49	70.0	2.013	
973.	4.30	34.50			27.38	80.3							
1168.	3.63	34.54			27.48	70.9							
1461.	2.92	34.58			27.58	61.5							

CROMWELL 5, STATION 2, 19- ON LAT, 157- 0W LONG, JUNE 16, 1964, 1800 G.C.T.		WET BULB 25.2		WIND SPEED 19, DIR. 11		BAR. 16		WEATHER 01		VIS. 7		CLOUD TYPE 6, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	DYN. DPTH.
0.	26.02	34.64			22.78	508.7	0.	26.02	34.64	22.78	508.7	0.000	
11.	25.99	34.64			22.79	508.3	10.	25.99	34.64	22.79	508.3	0.051	
30.6	25.99	34.64			22.79	509.0	20.	26.01	34.64	22.78	509.3	0.102	
51.	25.55	34.68			22.95	493.9	30.	25.99	34.64	22.79	509.0	0.154	
76.	24.41	35.00			23.54	438.8	50.	25.58	34.68	22.94	495.2	0.255	
101.	23.74	35.15			23.85	410.0	75.	24.46	34.99	23.52	441.1	0.373	
125.	22.41	35.16			24.24	373.5	100.	23.77	35.15	23.84	411.0	0.480	
149.	19.80	34.96			24.80	320.7	150.	19.73	34.96	24.82	319.4	0.664	
176.	17.64	34.74			25.18	285.3	200.	15.14	34.43	25.52	253.3	0.809	
188.	15.90	34.52			25.42	262.4	250.	12.18	34.23	25.98	210.0	0.925	
223.	14.32	34.36			25.64	241.6	300.	9.95	34.18	26.34	175.5	1.023	
250.	12.18	34.23			25.98	210.0	400.	7.73	34.16	26.68	144.2	1.184	
276.	11.10	34.20			26.15	193.2	500.	6.06	34.16	26.90	122.5	1.318	
300.	9.95	34.18			26.34	175.5	600.	5.67	34.33	27.09	106.1	1.434	
400.	7.73	34.16			26.68	144.2	700.	5.24	34.42	27.21	95.0	1.536	
500.	6.06	34.16			26.90	122.5	800.	4.80	34.47	27.30	87.0	1.628	
600.	5.67	34.33			27.09	106.1	1000.	4.03	34.54	27.44	74.3	1.791	
800.	4.80	34.47			27.30	87.0	1200.	3.52	34.57	27.51	67.6	1.934	
1000.	4.03	34.54			27.44	74.3	1500.	2.79	34.61	27.61	58.0	2.125	
1200.	3.52	34.57			27.51	67.6							
1500.	2.79	34.61			27.61	58.0							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.25

CROMWELL 5, STATION 3, 17-30N LAT, 157- 0W LONG, JUNE 17, 1964, 0300 G.C.T.		WET BULB 25.1		WIND SPEED 22, DIR. 08		BAR. 15		WEATHER 00		VIS. 7		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	DYN. DPTH.
0.	25.09	34.64			23.06	481.4	0.	25.09	34.64	23.06	481.4	0.000	
9.	25.09	34.65			23.07	481.0	10.	25.09	34.65	23.07	481.0	0.048	
30.6	25.09	34.65			23.07	481.8	20.	25.09	34.65	23.07	481.3	0.097	
48.	25.06	34.65			23.08	481.7	30.	25.09	34.65	23.07	481.8	0.145	
72.	24.05	34.69			23.41	450.7	50.	24.98	34.65	23.10	479.7	0.242	
95.	24.00	35.08			23.72	422.1	75.	24.04	34.74	23.45	446.9	0.359	
119.	23.11	35.13			24.02	394.6	100.	23.91	35.11	23.77	417.4	0.468	
143.	20.81	35.00			24.56	343.3	150.	20.36	34.98	24.67	333.1	0.657	
168.	19.42	34.93			24.88	314.1	200.	17.38	34.70	25.21	282.8	0.812	
181.	18.80	34.84			24.97	305.8	250.	13.12	34.31	25.86	221.8	0.939	
214.	16.19	34.60			25.42	263.7	300.	10.98	34.23	26.20	189.7	1.043	
239.	14.26	34.42			25.70	236.5	400.	8.32	34.25	26.66	146.2	1.213	
262.	12.04	34.22			26.00	208.4	500.	6.89	34.27	26.88	125.7	1.350	
285.	11.43	34.22			26.11	197.8	600.	6.26	34.40	27.07	108.7	1.468	
382.	8.70	34.26			26.61	151.1	700.	5.68	34.46	27.18	98.2	1.573	
477.	7.10	34.24			26.83	130.4	800.	5.15	34.48	27.27	90.6	1.668	
573.	6.43	34.38			27.03	112.2	1000.	4.26	34.53	27.40	78.1	1.839	
765.	5.34	34.47			27.24	93.5	1200.	3.57	34.55	27.50	69.3	1.988	
956.	4.42	34.52			27.38	80.1							
1148.	3.78	34.54			27.46	72.5							
1438.	2.93	34.58			27.58	61.5							

Table 2.--Continued

ORIGINAL DATA			DERIVED DATA			INTERPOLATED DATA						
CROMWELL 5, STATION 4, 16-04 LAT, 156-59W LONG, JUNE 17, 1964, 1300 G.C.T.			WET BULB 22.3 WIND SPEED 19, CIR. 08 BAR. 14 WEATHER 00			V15. 7 CLOUD TYPE , COVER						
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELT4	DEPTH	TEMP.	SAL.	SIGMA-T	DELT4	DYN-OPTH.
0.	25.30	34.57		22.95	492.5	0.	25.30	34.57	22.95	492.5	0.000	
10.	25.32	34.57		22.94	493.5	10.	25.32	34.57	22.94	493.5	0.050	
30. ^A	25.32	34.57		22.94	494.3	20.	25.32	34.57	22.94	494.0	0.099	
50. ^A	25.32	34.57		22.94	495.1	30.	25.32	34.57	22.94	494.3	0.149	
76.	24.71	34.65		23.34	458.3	50.	25.32	34.57	22.94	495.1	0.249	
100.	23.01	34.92		23.89	406.2	75.	24.27	34.64	23.31	460.3	0.369	
126.	21.77	35.02		24.32	366.4	100.	23.01	34.92	23.89	406.2	0.478	
151.	19.92	35.02		24.82	319.4	150.	20.01	35.02	24.80	321.4	0.662	
176.	16.74	34.62		25.30	273.4	200.	14.93	34.45	25.58	247.3	0.805	
191.	15.64	34.51		25.47	257.6	250.	11.26	34.25	26.17	191.7	0.916	
224.	13.05	34.31		25.87	220.0	300.	9.76	34.29	26.46	164.1	1.005	
251.	11.20	34.25		26.18	190.7	400.	8.46	34.48	26.82	131.6	1.155	
277.	10.29	34.22		26.31	177.8	500.	7.23	34.46	26.98	116.2	1.280	
302.	9.72	34.30		26.47	162.9	600.	6.31	34.48	27.12	103.6	1.391	
402.	8.44	34.48		26.82	131.2	700.	5.74	34.50	27.21	95.7	1.491	
504.	7.19	34.46		26.95	115.7	800.	5.32	34.52	27.28	90.1	1.585	
604.	6.28	34.48		27.13	103.2	1000.	4.47	34.55	27.40	79.0	1.756	
807.	5.30	34.52		27.28	89.8	1200.	3.80	34.52	27.45	74.6	1.912	
1008.	4.44	34.55		27.40	78.7	1500.	3.02	34.61	27.59	61.0	2.118	
1208.	3.78	34.52		27.45	74.5							
1510.	3.00	34.61		27.60	60.6							

CROMWELL 5, STATION 5, 14-30N LAT, 157-0W LONG, JUNE 17, 1964, 2300 G.C.T.			WET BULB 22.5 WIND SPEED 22, CIR. 07 BAR. 15 WEATHER 03			V15. 7 CLOUD TYPE 8, COVER 2						
DEPTH	TFMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELT4	DEPTH	TEMP.	SAL.	SIGMA-T	DELT4	DYN-OPTH.
0.	25.54	34.58		22.88	498.8	0.	25.54	34.58	22.88	498.8	0.000	
10.	25.49	34.58		22.90	497.8	10.	25.49	34.58	22.90	497.8	0.050	
30. ^A	25.49	34.58		22.96	498.5	20.	25.48	34.58	22.90	497.9	0.100	
50. ^A	25.49	34.58		22.90	499.3	30.	25.49	34.58	22.90	498.5	0.151	
75.	24.36	34.58		23.24	467.6	50.	25.49	34.58	22.90	499.3	0.251	
100.	22.79	34.97		23.99	396.6	75.	24.36	34.58	23.24	467.6	0.373	
125.	20.98	35.06		24.56	342.7	100.	22.79	34.97	23.99	396.6	0.482	
150.	19.32	34.99		24.95	306.6	150.	19.32	34.99	24.95	306.6	0.659	
175.	15.93	34.58		25.46	258.3	200.	13.00	34.42	25.97	210.1	0.789	
190.	13.57	34.36		25.80	225.6	250.	10.34	34.44	26.48	161.9	0.883	
223.	12.39	34.65		26.26	182.5	300.	10.33	34.66	26.65	146.5	0.961	
250.	10.34	34.44		26.48	161.9	400.	9.36	34.64	26.80	134.0	1.102	
275.	10.56	34.67		26.62	149.3	500.	8.29	34.58	26.92	123.3	1.232	
301.	10.32	34.66		26.65	146.5	600.	7.29	34.54	27.04	112.9	1.351	
401.	9.35	34.64		26.80	133.9	700.	6.42	34.52	27.14	103.3	1.460	
501.	8.28	34.58		26.92	123.2	800.	5.69	34.52	27.23	94.8	1.561	
601.	7.28	34.54		27.04	112.8	1000.	4.68	34.54	27.37	82.4	1.740	
801.	5.68	34.52		27.24	94.7	1200.	3.91	34.56	27.47	73.1	1.897	
1002.	4.67	34.54		27.37	82.3	1500.	3.06	34.60	27.58	61.9	2.103	
1201.	3.91	34.56		27.47	73.1							
1503.	3.05	34.60		27.58	61.9							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.25
SALINITY ERROR TERM AT 200. METERS IS 0.06

CROMWELL 5, STATION 6, 13- ON LAT, 157-1W LONG, JUNE 18, 1964, 0900 G.C.T.			WET BULB 22.7 WIND SPEED 21, CIR. 07 BAR. 15 WEATHER 01			V15. 7 CLOUD TYPE , COVER						
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELT4	DEPTH	TEMP.	SAL.	SIGMA-T	DELT4	DYN-OPTH.
0.	26.57	34.74		22.68	518.0	0.	26.57	34.74	22.68	518.0	0.000	
9.	26.60	34.74		22.67	519.3	10.	26.60	34.74	22.67	519.3	0.052	
30. ^A	26.60	34.74		22.67	520.1	20.	26.61	34.74	22.67	519.9	0.105	
50. ^A	26.60	34.74		22.67	520.9	30.	26.60	34.74	22.67	520.1	0.157	
70.	26.57	34.74		22.68	520.8	50.	26.60	34.74	22.67	520.9	0.262	
93.	24.72	34.50		23.01	484.4	75.	26.19	34.68	22.76	513.6	0.392	
100. ^A	24.46	34.50		23.15	477.2	100.	24.46	34.50	23.15	477.2	0.517	
11T.	21.00	34.60		24.21	376.2	150.	12.29	34.31	26.01	204.1	0.689	
141.	13.40	34.38		25.85	219.5	200.	10.33	34.33	26.39	169.0	0.783	
164.	11.57	34.24		26.1C	196.0	250.	9.29	34.37	26.60	149.6	0.863	
178.	11.05	34.28		26.23	184.2	300.	8.87	34.44	26.72	138.7	0.936	
209.	10.09	34.34		26.44	164.1	400.	8.27	34.55	26.90	123.4	1.068	
234.	9.62	34.36		26.54	155.5	500.	7.41	34.51	27.00	115.2	1.188	
257.	9.17	34.38		26.63	147.3	600.	6.60	34.50	27.10	106.0	1.300	
281.	8.98	34.41		26.66	142.5	700.	5.95	34.51	27.19	97.8	1.403	
375.	8.46	34.55		26.87	125.9	800.	5.42	34.53	27.27	90.9	1.498	
469.	7.68	34.52		26.96	118.0	1000.	4.60	34.54	27.38	81.1	1.672	
564.	6.87	34.50		27.06	109.3	1200.	3.88	34.56	27.47	72.9	1.828	
754.	5.65	34.52		27.24	93.7							
943.	4.82	34.54		27.35	83.6							
1133.	4.12	34.55		27.44	75.9							
1424.	3.20	34.57		27.55	65.4							

TEMPERATURE ERROR TERM AT 150. METERS IS 0.16

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 5, STATION 7, 11-24N LAT, 157-0W LONG, JUNE 18, 1964, 1800 G.C.T.												
DRY BULB 26.7	WET BULB 23.7	WIND SPEED 16, DIR. 08	BAR. 14	WEATHER 03	VIS. 6	CLOUD TYPE 8, COVER 6						
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELT4	OEPH	TEMP.	SAL.	SIGMA-T	DELT4	DYN. DPTH.
0.	26.93	34.64			22.49	536.1	0.	26.93	34.64	22.49	536.1	0.000
10.	26.91	34.64			22.52	535.9	10.	26.91	34.64	22.50	535.9	0.054
30. ^Δ	26.92	34.64			22.49	537.0	20.	26.91	34.64	22.50	536.3	0.108
50. ^Δ	26.93	34.64			22.49	538.1	30.	26.92	34.64	22.49	537.0	0.162
73.	26.94	34.66			22.50	537.9	50.	26.93	34.64	22.49	538.1	0.270
97.	22.62	34.66			23.81	414.2	75.	26.70	34.66	22.58	530.4	0.405
121.	16.62	34.56			25.29	273.3	100.	21.86	34.66	24.01	394.3	0.521
145.	12.49	34.26			25.94	211.0	150.	12.15	34.29	26.03	202.6	0.672
170.	11.56	34.48			26.29	178.4	200.	11.12	34.61	26.47	161.8	0.764
183.	11.24	34.52			26.38	170.0	250.	10.52	34.67	26.63	147.8	0.842
216.	11.07	34.68			26.53	156.1	300.	9.99	34.68	26.72	139.5	0.914
242.	10.60	34.67			26.61	149.2	400.	9.01	34.63	26.85	128.7	1.050
268.	10.37	34.68			26.66	145.1	500.	8.19	34.59	26.95	120.9	1.175
291.	10.09	34.68			26.71	140.9	600.	7.24	34.55	27.06	111.1	1.293
387.	9.11	34.64			26.84	129.7	700.	6.47	34.54	27.15	103.1	1.401
485.	8.34	34.60			26.93	122.4	800.	5.82	34.53	27.23	95.9	1.502
581.	7.40	34.56			27.04	112.8	1000.	4.74	34.54	27.36	83.0	1.682
777.	5.97	34.53			27.21	97.6	1200.	3.92	34.56	27.47	73.1	1.840
972.	4.86	34.54			27.35	84.4						
1167.	4.10	34.56			27.45	75.2						
1462.	3.13	34.60			27.59	62.6						

CROMWELL 5, STATION 7A, 9-55N LAT, 154-2W LONG, JUNE 19, 1964, 1500 G.C.T.				DERIVED DATA				INTERPOLATED DATA				
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELT4	DYN. DPTH.	
0.	26.86	34.16			22.15	568.5	0.	26.86	34.16	22.15	568.5	0.000
10.	26.85	34.16			22.16	568.6	10.	26.85	34.16	22.16	568.6	0.057
30. ^Δ	26.85	34.16			22.16	569.4	20.	26.93	34.14	22.11	573.0	0.115
50.	25.59	34.52			22.82	506.6	30.	26.85	34.16	22.16	569.4	0.172
59.	24.93	34.58			23.07	483.4	50.	25.59	34.52	22.82	506.6	0.281
69.	20.22	34.76			24.54	342.9	75.	19.19	34.80	24.84	314.4	0.384
79.	18.66	34.78			24.96	303.3	100.	13.88	34.34	25.73	230.4	0.453
88.	15.96	34.52			25.41	260.7	150.	11.64	34.77	26.50	158.1	0.551
98.	14.12	34.36			25.69	234.1	200.	10.81	34.74	26.63	146.8	0.627
108.	13.12	34.32			25.86	217.6	250.	10.35	34.72	26.69	141.6	0.700
147.	11.71	34.76			26.48	160.0	300.	9.90	34.70	26.75	136.6	0.770
197.	10.84	34.74			26.62	147.2	400.	9.04	34.66	26.86	127.5	0.904
247.	10.38	34.72			26.69	141.9	500.	8.17	34.62	26.97	118.8	1.028
296.	9.94	34.70			26.75	137.0	600.	7.03	34.58	27.10	106.4	1.142
395.	9.08	34.66			26.86	127.9	700.	6.14	34.56	27.21	96.6	1.244
493.	8.25	34.62			26.96	119.7	800.	5.44	34.56	27.30	88.5	1.338
592.	7.11	34.58			27.09	107.3	1000.	4.41	34.58	27.43	76.0	1.504
790.	5.50	34.56			27.29	89.2	1200.	3.69	34.60	27.52	67.5	1.649
988.	4.46	34.58			27.42	76.5						
1186.	3.78	34.60			27.51	69.4						
1485.	3.04	34.62			27.60	60.1						

TEMPERATURE ERROR TERM AT 75. METERS IS 0.19

CROMWELL 5, STATION 8, 11-30N LAT, 154-0W LONG, JUNE 20, 1964, 0100 G.C.T.				DERIVED DATA				INTERPOLATED DATA				
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELT4	DYN. DPTH.	
0.	26.71	34.58			22.52	533.7	0.	26.71	34.58	22.52	533.7	0.000
10.	26.70	34.54			22.52	533.8	10.	26.70	34.58	22.52	533.8	0.054
30. ^Δ	26.64	34.54			22.55	532.1	20.	26.67	34.58	22.53	533.1	0.108
50. ^Δ	26.54	34.60			22.57	530.4	30.	26.64	34.59	22.55	532.1	0.161
75.	26.46	34.60			22.61	527.8	50.	26.58	34.60	22.57	530.4	0.268
80.	25.80	34.62			22.83	506.8	75.	26.46	34.60	22.61	527.8	0.401
91.	22.00	34.73			24.03	392.2	100.	20.95	34.81	24.39	358.8	0.513
101.	20.89	34.82			24.41	356.9	150.	15.16	34.46	25.54	249.7	0.666
110.	20.04	34.84			24.65	334.0	200.	13.14	34.72	26.17	191.1	0.778
120.	19.01	34.81			24.89	311.0	250.	11.62	34.72	26.46	163.8	0.867
130.	17.82	34.76			25.15	286.6	300.	10.41	34.62	26.60	150.9	0.946
140.	16.65	34.66			25.35	267.3	400.	8.95	34.60	26.83	130.3	1.088
150.	15.16	34.40			25.54	249.7	500.	7.71	34.54	26.98	117.5	1.213
200.	13.14	34.72			26.17	191.1	600.	6.86	34.52	27.08	108.2	1.327
250.	11.62	34.72			26.46	163.8	700.	6.06	34.52	27.19	98.5	1.432
300.	10.41	34.62			26.60	150.9	800.	5.36	34.53	27.28	89.8	1.527
399.	8.96	34.60			26.83	130.5	1000.	4.44	34.55	27.40	78.7	1.697
500.	7.71	34.54			26.99	117.5	1200.	3.64	34.58	27.51	68.4	1.846
600.	6.86	34.52			27.08	108.2	1500.	2.85	34.60	27.60	59.4	2.041
799.	5.37	34.53			27.28	89.8						
1001.	4.44	34.55			27.40	79.6						
1201.	3.64	34.58			27.51	68.3						
1500.	2.85	34.60			27.60	59.4						

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL		5, STATION	9, 13- IN LAT, 154- OW LONG, JUNE 20, 1964, 1000 G.C.T.									
DRY BULB 26.2		WET BULB 22.8	WIND SPEED 18, DIR. 05	BAR. 14		WEATHER 50		V15. 7		CLOUD TYPE 6, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTH.
0.	26.42	34.64		22.65	520.7	0.	26.42	34.64	22.65	520.7	0.000	
10. ^Δ	26.41	34.64		22.66	520.8	10.	26.41	34.64	22.66	520.8	0.052	
30. ^Δ	26.36	34.64		22.67	520.1	20.	26.39	34.64	22.66	520.5	0.105	
50. ^Δ	26.30	34.64		22.69	519.1	30.	26.36	34.64	22.67	520.1	0.157	
75. ^Δ	24.00	34.64		23.39	453.0	50.	26.30	34.64	22.69	519.1	0.262	
80.	23.48	34.66		23.56	437.2	73.	24.00	34.64	23.39	453.0	0.384	
90.	23.16	34.84		23.79	415.7	100.	22.02	34.94	24.19	377.9	0.489	
100.	22.02	34.94		24.19	377.9	150.	16.01	34.85	25.17	285.2	0.856	
110.	21.07	35.06		24.54	344.5	200.	12.18	34.27	26.01	205.8	0.780	
120.	20.49	35.09		24.72	327.7	250.	10.16	34.40	26.48	161.4	0.872	
130.	19.68	35.02		24.88	312.7	300.	9.83	34.57	26.67	146.7	0.950	
140.	18.78	34.92		25.03	298.1	400.	8.52	34.56	26.87	126.5	1.087	
150.	18.01	34.85		25.17	285.2	500.	7.63	34.56	27.00	114.9	1.208	
200.	12.18	34.27		26.01	205.8	600.	6.67	34.52	27.11	105.5	1.320	
249.	10.17	34.40		26.47	161.9	700.	5.97	34.52	27.20	97.2	1.422	
299.	9.84	34.57		26.66	145.0	800.	5.43	34.54	27.28	89.9	1.517	
400.	8.52	34.56		26.87	126.5	1000.	4.58	34.57	27.40	78.9	1.688	
499.	7.64	34.56		27.00	115.0	1200.	3.87	34.59	27.49	70.6	1.839	
600.	6.67	34.52		27.11	105.5	1500.	3.04	34.62	27.60	60.2	2.038	
798.	5.64	34.54		27.28	90.0							
998.	4.50	34.57		27.40	79.0							
1199.	3.88	34.58		27.49	71.2							
1500.	3.04	34.62		27.60	60.2							

CROMWELL				5, STATION	10, 14-30N LAT, 154- OW LONG, JUNE 20, 1964, 1900 G.C.T.			V15. 7				CLOUD TYPE 8, COVER 4	
DRY BULB 25.7		WET BULB 22.8	WIND SPEED 14, DIR. 04	BAR. 14		WEATHER 03							
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTH.	
0.	25.48	34.54		22.87	499.9	0.	25.48	34.54	22.87	499.9	0.000		
10. ^Δ	25.46	34.54		22.87	499.8	10.	25.46	34.54	22.87	499.8	0.050		
30. ^Δ	25.47	34.54		22.87	500.8	20.	25.46	34.54	22.87	500.2	0.101		
50. ^Δ	25.49	34.54		22.87	502.2	30.	25.47	34.54	22.87	500.8	0.151		
75. ^Δ	22.83	34.70		23.78	416.2	50.	25.49	34.54	22.87	502.2	0.252		
100.	20.09	34.75		24.57	341.4	75.	22.83	34.70	23.70	416.2	0.368		
124.	18.33	34.81		25.06	294.8	100.	20.09	34.75	24.57	341.4	0.463		
148.	15.50	34.57		25.55	248.9	150.	15.38	34.56	25.57	247.2	0.612		
173.	14.22	34.44		25.73	232.4	200.	12.18	34.29	26.02	204.3	0.725		
188.	13.08	34.33		25.88	218.2	250.	10.34	34.44	26.48	161.8	0.818		
220.	10.99	34.30		26.25	182.7	300.	9.95	34.62	26.69	142.8	0.895		
246.	10.41	34.42		26.45	164.4	400.	8.63	34.60	26.88	125.6	1.030		
272.	10.05	34.54		26.60	150.1	500.	7.77	34.55	26.97	117.8	1.153		
296.	9.99	34.62		26.68	143.7	600.	6.90	34.53	27.08	108.1	1.267		
394.	8.69	34.60		26.87	126.1	700.	6.16	34.52	27.17	99.8	1.372		
493.	7.83	34.55		26.97	118.4	800.	5.52	34.52	27.25	92.6	1.469		
592.	6.96	34.53		27.08	108.8	1000.	4.52	34.54	27.39	80.2	1.644		
789.	5.59	34.52		27.25	93.4	1200.	3.81	34.56	27.48	71.6	1.798		
986.	4.57	34.54		27.38	80.9								
1184.	3.92	34.56		27.47	73.1								
1481.	3.11	34.60		27.58	62.4								

CROMWELL				5, STATION	11, 16- 4N LAT, 154- 1W LONG, JUNE 21, 1964, 0600 G.C.T.			V15. 7				CLOUD TYPE 4, COVER 6	
DRY BULB 25.3		WET BULB 22.8	WIND SPEED 15, DIR. 02	BAR. 15		WEATHER 02							
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTH.	
0.	26.11	34.76		22.84	502.7	0.	26.11	34.76	22.84	502.7	0.000		
10. ^Δ	26.01	34.78		22.89	498.7	10.	26.01	34.78	22.89	498.7	0.050		
30. ^Δ	26.03	34.77		22.87	500.9	20.	26.00	34.78	22.89	499.0	0.101		
50. ^Δ	26.04	34.77		22.87	502.0	30.	26.03	34.77	22.87	500.9	0.151		
75. ^Δ	26.06	34.76		22.86	504.3	50.	26.04	34.77	22.87	502.0	0.252		
100.	23.25	34.70		23.65	428.7	75.	26.06	34.76	22.86	504.3	0.379		
124.	21.04	34.82		24.37	361.6	100.	23.25	34.70	23.65	428.7	0.496		
149.	17.93	34.74		25.11	291.2	150.	17.77	34.72	25.13	288.8	0.677		
173.	14.64	34.38		25.59	245.4	200.	12.84	34.30	25.90	216.1	0.804		
188.	13.75	34.37		25.77	228.4	250.	10.18	34.21	26.32	176.4	0.903		
220.	11.39	34.18		26.09	198.5	300.	9.40	34.37	26.58	152.6	0.986		
247.	10.27	34.20		26.30	178.3	400.	8.38	34.50	26.85	128.6	1.128		
272.	9.68	34.26		26.45	164.6	500.	7.44	34.51	26.99	115.8	1.251		
297.	9.43	34.36		26.57	153.7	600.	6.73	34.50	27.08	107.9	1.364		
394.	8.44	34.50		26.84	129.6	700.	6.06	34.50	27.17	100.2	1.470		
495.	7.48	34.51		26.99	116.2	800.	5.52	34.50	27.24	94.0	1.568		
593.	6.78	34.50		27.08	106.5	1000.	4.96	34.52	27.32	87.5	1.751		
793.	5.54	34.50		27.24	94.2	1200.	4.13	34.55	27.44	76.4	1.917		
993.	5.00	34.52		27.32	87.9								
1191.	3.98	34.56		27.46	73.9								
1489.	3.17	34.59		27.56	64.0								

TEMPERATURE ERROR TERM AT 1200. METERS IS 0.13

FROM BY DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL 5, STATION 12, 17-31N LAT, 154-0W LONG, JUNE 21, 1964, 1500 G.C.T.											
DRY BULB 24.4	WET BULB 20.7	WIND SPEED 15, DIR. 02	BAR. 15	WEATHER 01	VIS. 7	CLOUD TYPE	COVER	DEPTH	TEMP.	SAL.	OXY.
									PO4-P	SIGMA-T	DELTA
0.	25.73	34.70			22.91	495.8	0.	25.73		34.70	22.91
10.	25.77	34.69			22.89	498.1	10.	25.77		34.69	22.89
30. ^A	25.70	34.69			22.91	496.8	20.	25.81		34.69	22.88
50.	24.68	34.69			23.23	467.9	30.	25.70		34.69	22.91
70.	25.03	34.60			23.05	485.4	50.	24.68		34.69	23.23
90.	23.31	34.70			23.64	430.3	75.	24.97		34.60	23.07
123.	22.23	34.98			24.16	381.5	100.	23.21		34.72	23.68
149.	21.27	35.14			24.55	345.4	150.	21.19		35.14	24.57
173.	19.26	34.98			24.96	306.7	200.	17.65		34.77	25.20
188.	18.48	34.89			25.09	294.7	250.	12.10		34.20	25.97
220.	15.80	34.54			25.46	259.7	300.	10.16		34.32	26.41
247.	12.27	34.20			25.94	213.8	400.	8.41		34.43	26.79
272.	11.32	34.25			26.15	193.4	500.	7.17		34.44	26.98
296.	10.28	34.31			26.39	171.4	600.	6.47		34.46	27.09
395.	8.49	34.43			26.77	135.6	700.	5.82		34.48	27.19
494.	7.22	34.44			26.97	117.6	800.	5.26		34.50	27.27
594.	6.51	34.46			27.08	107.7	1000.	4.44		34.54	27.40
792.	5.30	34.50			27.27	91.1	1200.	3.79		34.57	27.48
992.	4.47	34.54			27.39	79.7					71.1
1190.	3.85	34.56			27.47	72.3					1.971
1489.	3.03	34.60			27.59	61.5					
CROMWELL 5, STATION 13, 18-58N LAT, 153-58W LONG, JUNE 21, 1964, 2300 G.C.T.											
DRY BULB 25.2	WET BULB 22.3	WIND SPEED 16, DIR. 04	BAR. 17	WEATHER 02	VIS. 8	CLOUD TYPE	COVER	DEPTH	TEMP.	SAL.	OXY.
									PO4-P	SIGMA-T	DELTA
0.	25.41	34.65			22.97	490.0	0.	25.41		34.65	22.97
9.	25.35	34.64			22.98	489.3	10.	25.35		34.64	22.98
30. ^A	25.20	34.64			23.03	485.7	20.	25.30		34.63	22.99
48.	24.70	34.76			23.27	463.3	30.	25.20		34.64	23.03
73.	23.55	34.83			23.67	426.6	50.	24.61		34.77	23.30
96.	23.00	34.95			23.92	403.6	75.	23.50		34.84	23.69
119.	21.97	34.93			24.19	378.0	100.	22.83		34.94	23.96
144.	21.18	35.15			24.58	342.1	150.	20.82		35.13	24.66
167.	19.84	35.02			24.84	318.0	200.	18.51		34.91	25.09
181.	19.45	35.00			24.92	310.2	250.	14.60		34.41	25.62
212.	17.75	34.82			25.21	283.3	300.	11.40		34.23	26.13
238.	15.89	34.56			25.45	260.8	400.	8.48		34.23	26.62
259.	13.65	34.31			25.75	232.7	500.	6.67		34.23	26.88
282.	12.21	34.25			25.99	209.9	600.	5.82		34.31	27.05
374.	9.15	34.24			26.52	159.5	700.	5.34		34.39	27.18
467.	7.12	34.21			26.80	132.8	800.	4.90		34.46	27.28
560.	6.08	34.28			27.00	114.7	1000.	4.04		34.51	27.42
749.	5.18	34.43			27.22	94.2	1200.	3.49		34.55	27.50
934.	4.23	34.50			27.39	79.1					68.7
1120.	3.79	34.53			27.46	73.2					1.996
1404.	3.14	34.57			27.55	64.5					
CROMWELL 5, STATION 14, 20-30N LAT, 153-57W LONG, JUNE 22, 1964, 1200 G.C.T.											
DRY BULB 24.0	WET BULB 21.6	WIND SPEED 15, DIR. 04	BAR. 15	WEATHER 02	VIS. 7	CLOUD TYPE	COVER	DEPTH	TEMP.	SAL.	OXY.
									PO4-P	SIGMA-T	DELTA
0.	25.00	34.84			23.24	464.3	0.	25.00		34.84	23.24
10.	24.97	34.84			23.25	463.9	10.	24.97		34.84	23.25
30. ^A	24.66	34.87			23.37	453.5	20.	24.89		34.85	23.28
51.	23.44	35.02			23.84	409.0	30.	24.66		34.87	23.37
76.	23.07	35.04			23.96	398.3	50.	23.50		35.01	23.82
100.	22.64	35.09			24.13	383.8	75.	23.07		35.04	23.96
125.	22.49	35.15			24.21	376.4	100.	22.64		35.09	24.13
150.	21.64	35.16			24.46	353.7	150.	21.64		35.16	24.46
174.	20.79	35.17			24.70	331.6	200.	19.40		35.01	24.94
189.	20.07	35.08			24.82	320.2	250.	15.85		34.57	25.47
224.	17.74	34.82			25.22	283.4	300.	11.91		34.20	26.00
249.	15.93	34.58			25.46	260.5	400.	8.23		34.18	26.62
276.	13.67	34.34			25.76	231.4	500.	7.64		34.38	26.86
300.	11.91	34.20			26.00	208.4	600.	6.47		34.43	27.06
399.	8.24	34.18			26.61	150.3	700.	5.84		34.47	27.17
500.	7.64	34.38			26.86	128.3	800.	5.46		34.50	27.25
601.	6.46	34.43			27.06	109.3	1000.	4.60		34.53	27.37
803.	5.45	34.50			27.25	93.1	1200.	3.98		34.56	27.46
1004.	4.58	34.53			27.37	81.9	1500.	3.13		34.60	27.58
1204.	3.97	34.56			27.46	73.9					62.9
1505.	3.12	34.60			27.58	62.7					2.229

Table 2--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 5, STATION 15, 21-58N LAT, 153-59W LCNG, JUNE 22, 1964, 1900 G.C.T. DRY BULB 24.6 WET BULB 21.7 WIND SPEED 18, CIR. 05 BAR. 19 WEATHER 03 VIS. T CLOUD TYPE 4, COVER 5												
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.50	34.86			23.38	451.1	0.	24.59	34.86	23.38	451.1	0.000
10.	24.57	34.88			23.40	449.4	10.	24.57	34.88	23.40	449.4	0.045
30. ^A	24.46	34.88			23.43	447.1	20.	24.62	34.86	23.38	452.4	0.091
49.	22.91	35.16			24.10	384.2	30.	24.46	34.88	23.43	447.1	0.136
74.	22.60	35.18			24.20	375.2	50.	22.88	35.16	24.11	383.1	0.220
99.	22.18	35.22			24.35	361.9	75.	22.59	35.18	24.21	374.8	0.315
124.	21.60	35.24			24.53	345.9	100.	22.16	35.22	24.36	361.4	0.408
149.	20.66	35.20			24.76	324.7	150.	20.62	35.20	24.77	324.2	0.581
174.	19.97	35.15			24.90	312.1	200.	18.65	34.95	25.09	295.3	0.737
189.	19.18	35.02			25.01	302.4	250.	15.43	34.55	25.55	251.9	0.875
223.	17.42	34.79			25.27	278.1	300.	12.39	34.26	25.96	213.1	0.992
249.	15.51	34.56			25.54	252.8	400.	9.23	34.12	26.41	170.3	1.185
274.	13.57	34.32			25.77	230.8	500.	6.94	34.11	26.75	138.1	1.341
299.	12.43	34.26			25.95	213.7	600.	5.42	34.17	26.99	114.6	1.469
397.	9.31	34.12			26.40	171.4	700.	4.69	34.27	27.15	99.8	1.577
498.	6.94	34.11			26.74	138.7	800.	4.37	34.36	27.26	89.8	1.673
598.	5.44	34.17			26.99	115.0	1000.	3.91	34.48	27.40	77.3	1.842
798.	4.38	34.36			27.26	90.0	1200.	3.47	34.54	27.49	69.3	1.990
997.	3.92	34.48			27.40	77.4						
1197.	3.48	34.52			27.48	70.8						
1497.	2.83	34.58			27.59	60.6						
CROMWELL 5, STATION 16, 23-32N LAT, 153-58W LCNG, JUNE 23, 1964, 0400 G.C.T. DRY BULB 24.0 WET BULB 21.0 WIND SPEED 16, CIR. 03 BAR. 17 WEATHER 02 VIS. 8 CLOUD TYPE 8, COVER 3												
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.44	35.01			23.54	436.0	0.	24.44	35.01	23.54	436.0	0.000
10.	24.44	35.04			23.56	434.2	10.	24.44	35.04	23.56	434.2	0.044
30. ^A	24.28	35.05			23.62	429.7	20.	24.43	35.05	23.57	433.7	0.088
50.	23.21	35.08			23.95	398.3	30.	24.28	35.05	23.62	429.7	0.131
74.	22.74	35.17			24.16	379.8	50.	23.21	35.08	23.95	398.3	0.214
100.	22.07	35.24			24.40	357.6	75.	22.72	35.17	24.17	379.0	0.312
125.	21.14	35.20			24.63	336.8	100.	22.07	35.24	24.40	357.6	0.405
150.	20.14	35.12			24.84	317.7	150.	20.14	35.12	24.84	317.7	0.575
174.	18.83	34.98			25.07	296.2	200.	17.78	34.85	25.23	281.1	0.726
189.	18.38	34.92			25.14	290.2	250.	15.05	34.54	25.63	244.5	0.859
223.	16.36	34.70			25.45	260.5	300.	12.02	34.23	26.01	208.3	0.973
250.	15.05	34.54			25.63	244.5	400.	9.01	34.09	26.42	168.9	1.163
276.	12.90	34.30			25.89	219.2	500.	6.60	34.06	26.75	137.2	1.318
299.	12.05	34.23			26.00	208.8	600.	5.35	34.12	26.96	117.9	1.446
400.	9.01	34.09			26.42	168.9	700.	4.67	34.25	27.14	101.0	1.557
502.	6.56	34.06			26.76	136.6	800.	4.28	34.38	27.29	87.2	1.652
604.	5.32	34.12			26.96	117.2	1000.	3.77	34.51	27.44	73.5	1.815
813.	4.25	34.40			27.30	85.6	1200.	3.30	34.57	27.54	64.9	1.955
1004.	3.76	34.51			27.44	73.3						
1190.	3.32	34.56			27.53	65.9						
1474.	2.71	34.60			27.61	57.6						
CROMWELL 5, STATION 17, 23-28N LAT, 150-58W LCNG, JUNE 23, 1964, 2300 G.C.T. DRY BULB 22.8 WET BULB 20.5 WIND SPEED 17, CIR. 09 BAR. 17 WEATHER 52 VIS. 7 CLOUD TYPE 9, COVER 6												
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	24.14	35.12			23.71	419.5	0.	24.14	35.12	23.71	419.5	0.000
9.	24.10	35.12			23.72	418.7	10.	24.12	35.12	23.72	419.5	0.042
30. ^A	24.04	35.12			23.74	417.8	20.	24.21	35.11	23.68	422.8	0.085
44.	22.74	35.20			24.18	376.5	30.	24.04	35.12	23.74	417.8	0.127
68.	21.98	35.27			24.45	351.8	50.	22.47	35.22	24.28	367.5	0.206
90.	21.23	35.27			24.66	332.8	75.	21.73	35.27	24.52	345.1	0.296
111.	20.76	35.26			24.78	322.1	100.	21.03	35.28	24.72	327.5	0.381
133.	19.66	35.09			24.94	307.2	150.	18.83	34.98	25.06	295.6	0.538
156.	18.54	34.94			25.11	291.5	200.	16.64	34.71	25.40	265.1	0.679
169.	17.88	34.86			25.21	282.0	250.	13.39	34.33	25.81	226.0	0.803
199.	16.69	34.72			25.39	265.7	300.	11.42	34.18	26.08	200.8	0.910
227.	15.10	34.53			25.61	245.6	400.	8.83	34.06	26.43	168.2	1.096
246.	13.61	34.35			25.79	228.6	500.	6.74	34.04	26.72	140.4	1.252
269.	12.54	34.26			25.93	215.0	600.	5.36	34.13	26.97	116.8	1.382
359.	9.79	34.10			26.31	180.0	700.	4.76	34.27	27.15	99.9	1.492
450.	7.80	34.04			26.57	154.9	800.	4.38	34.38	27.27	88.6	1.587
540.	6.00	34.06			26.83	129.6	1000.	3.83	34.49	27.42	75.6	1.753
723.	4.70	34.31			27.18	96.8	1200.	3.37	34.55	27.52	67.1	1.898
909.	4.06	34.45			27.36	80.5						
1095.	3.63	34.52			27.46	71.8						
1383.	3.04	34.56			27.55	63.9						

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL	5, STATION	1R, 22- 2N LAT, 150-59W LENG, JUNE 24, 1964, 0800 G.C.T.									
DRY BULB 23.0	WET BULB 20.1	WIND SPEED 14, DIR. 06	BAR. 15	WEATHER 03	VIS. 7	CLOUD TYPE 8, COVER 6					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTa	DYN. DPTH.
0.	24.41	34.78		23.37	451.7	0.	24.41	34.78	23.37	451.7	0.000
10.	24.40	34.79		23.38	451.1	10.	24.40	34.79	23.38	451.1	0.045
52.	23.47	34.90		23.74	418.6	20.	24.30	34.80	23.42	448.1	0.091
77.	22.30	35.10		24.23	373.0	30.	24.13	34.82	23.49	442.1	0.136
103.	21.96	35.19		24.39	358.4	50.	23.55	34.89	23.71	421.3	0.223
128.	21.24	35.14		24.55	345.8	75.	22.39	35.08	24.19	376.4	0.323
154.	19.97	35.06		24.83	317.9	100.	21.99	35.19	24.38	359.2	0.416
179.	19.07	35.02		25.04	299.3	150.	20.17	35.07	24.79	322.0	0.587
194.	18.46	34.92		25.12	292.3	200.	18.21	34.89	25.15	288.8	0.741
229.	16.64	34.70		25.39	267.0	250.	14.94	34.48	25.61	246.3	0.876
256.	14.44	34.42		25.66	240.6	300.	11.97	34.17	25.97	211.4	0.992
281.	12.81	34.24		25.86	221.9	400.	8.80	34.09	26.46	165.8	1.182
306.	11.74	34.16		26.01	208.3	500.	6.55	34.08	26.77	135.3	1.334
408.	6.61	34.09		26.49	162.7	600.	5.44	34.20	27.01	112.8	1.459
511.	6.36	34.08		26.80	132.6	700.	5.00	34.33	27.17	98.8	1.566
612.	5.37	34.22		27.04	110.6	800.	4.79	34.43	27.27	90.0	1.661
815.	4.78	34.44		27.28	89.1	1000.	4.21	34.50	27.39	79.6	1.833
1018.	4.16	34.50		27.39	79.0	1200.	3.65	34.54	27.47	71.7	1.986
1220.	3.60	34.54		27.48	70.9	1500.	2.88	34.59	27.59	60.7	2.188
1522.	2.83	34.59		27.60	60.0						
CROMWELL 5, STATION 19, 20-32N LAT, 150-56W LENG, JUNE 24, 1964, 1700 G.C.T.											
DRY BULB 24.2	WET BULB 21.3	WIND SPEED 15, CIR. 09	BAR. 15	WEATHER 01	VIS. 7	CLOUD TYPE 8, COVER 6					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTa	DYN. DPTH.
0.	24.35	34.66		23.30	458.6	0.	24.35	34.66	23.30	458.6	0.000
10.	24.33	34.66		23.31	458.4	10.	24.33	34.66	23.31	458.4	0.046
30. ^Δ	24.28	34.68		23.34	456.4	20.	24.30	34.67	23.32	457.3	0.092
51.	24.29	34.67		23.33	458.2	30.	24.28	34.68	23.34	456.4	0.136
75.	23.60	34.68		23.54	43R.9	50.	24.30	34.67	23.33	458.3	0.230
100.	22.31	34.67		23.90	405.2	75.	23.60	34.68	23.54	438.9	0.343
125.	21.92	34.90		24.18	379.0	100.	22.31	34.67	23.90	405.2	0.450
150.	20.51	34.88		24.55	344.5	150.	20.51	34.88	24.55	344.5	0.639
174.	19.00	34.86		24.93	309.0	200.	17.71	34.77	25.19	285.5	0.797
188.	18.53	34.86		25.05	298.1	250.	13.64	34.30	25.74	233.1	0.928
220.	16.02	34.56		25.42	263.1	300.	11.15	34.16	26.12	197.3	1.037
246.	13.90	34.32		25.70	236.6	400.	7.94	34.17	26.65	146.7	1.210
271.	12.45	34.22		25.92	216.3	500.	6.77	34.24	26.87	126.3	1.348
295.	11.37	34.17		26.08	200.7	600.	5.40	34.24	27.05	109.1	1.467
391.	8.08	34.16		26.62	149.2	700.	5.03	34.35	27.17	98.0	1.571
488.	6.97	34.24		26.85	128.8	800.	4.93	34.45	27.27	90.0	1.667
586.	5.48	34.23		27.03	110.9	1000.	4.14	34.51	27.40	78.2	1.837
778.	5.02	34.44		27.25	91.7	1200.	3.55	34.54	27.49	70.2	1.987
973.	4.23	34.50		27.39	79.4						
1168.	3.64	34.53		27.47	71.7						
1463.	3.03	34.56		27.55	64.3						
TEMPERATURE ERROR TERM AT 70C. METERS 15 0.14											
CROMWELL 5, STATION 20, 19- IN LAT, 151- 2W LENG, JUNE 25, 1964, 0200 G.C.T.											
DRY BULB 24.8	WET BULB 21.6	WIND SPEED 15, DIR. 11	BAR. 13	WEATHER 02	VIS. 7	CLOUD TYPE 6, COVER 7					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTa	DYN. DPTH.
0.	24.93	34.76		23.20	468.1	0.	24.93	34.76	23.20	468.1	0.000
8.	24.90	34.76		23.21	467.5	10.	24.93	34.75	23.20	468.9	0.047
30. ^Δ	24.78	34.77		23.26	466.2	20.	24.96	34.74	23.18	470.9	0.095
45.	23.56	34.96		23.76	416.5	30.	24.78	34.77	23.26	464.2	0.142
70.	22.81	35.08		24.07	388.0	50.	23.33	35.00	23.86	407.6	0.229
93.	22.43	35.11		24.20	376.4	75.	22.73	35.09	24.1C	385.3	0.329
115.	21.69	35.12		24.42	356.7	100.	22.23	35.12	24.26	370.8	0.425
139.	20.61	35.10		24.69	330.8	150.	20.04	35.07	24.82	318.9	0.598
162.	19.41	35.02		24.95	307.1	200.	17.10	34.72	25.30	274.9	0.748
175.	18.74	34.94		25.06	296.9	250.	13.20	34.25	25.79	227.8	0.875
208.	16.49	34.64		25.38	267.3	300.	9.85	34.10	26.30	179.5	0.977
233.	14.37	34.36		25.83	242.9	400.	7.99	34.22	26.68	143.9	1.141
257.	12.71	34.22		25.87	220.9	500.	6.40	34.29	26.96	117.1	1.272
279.	10.78	34.12		26.15	193.6	600.	5.70	34.39	27.13	102.3	1.383
374.	8.57	34.20		26.58	153.4	700.	5.13	34.44	27.24	92.1	1.481
468.	6.73	34.26		26.89	123.7	800.	4.69	34.48	27.32	85.3	1.571
563.	5.95	34.36		27.07	107.1	1000.	4.08	34.53	27.42	75.8	1.734
752.	4.89	34.46		27.28	88.3	1200.	3.56	34.56	27.51	68.5	1.880
941.	4.23	34.51		27.39	78.4						
1130.	3.78	34.56		27.48	70.9						
1420.	3.07	34.58		27.57	63.0						
TEMPERATURE ERROR TERM AT 30C. METERS 15 0.28											

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL 5, STATION 21, 17-31N LAT, 150-57W LNG, JUNE 25, 1964, 1200 G.C.T.				WET BULB 21.8 WIND SPEED 17, DIR. 09				BAR. 14 WEATHER 01				VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELT A	DEPTH	TEMP.	SAL.	SIGMA-T	DELT A	DYN-OPTH.			
0.	24.63	34.64			23.20	468.1	0.	24.63	34.64	23.20	468.1	0.000			
10.	24.65	34.64			23.20	469.0	10.	24.65	34.64	23.20	469.0	0.047			
30. ^Δ	24.64	34.64			23.20	469.5	20.	24.65	34.64	23.20	469.4	0.094			
50. ^Δ	24.64	34.64			23.20	470.3	30.	24.64	34.64	23.20	469.5	0.142			
78.	23.87	34.67			23.45	447.3	50.	24.64	34.64	23.20	469.4	0.236			
102.	22.99	34.90			23.88	407.2	75.	23.98	34.66	23.41	451.1	0.352			
127.	22.51	35.07			24.15	382.7	100.	23.06	34.88	23.84	410.6	0.461			
152.	20.67	34.92			24.54	345.8	150.	20.84	34.93	24.51	348.9	0.652			
177.	19.20	34.94			24.94	308.2	200.	16.54	34.56	25.30	274.2	0.809			
192.	17.55	34.68			25.16	288.1	250.	11.28	34.20	26.13	195.4	0.928			
225.	13.50	34.28			25.75	231.0	300.	9.34	34.15	26.42	160.0	1.019			
252.	11.12	34.20			26.15	193.0	400.	7.82	34.25	26.73	138.7	1.174			
278.	10.12	34.21			26.33	175.7	500.	6.33	34.26	26.95	118.6	1.304			
302.	9.27	34.14			26.42	167.4	600.	5.62	34.31	27.08	106.6	1.418			
403.	7.80	34.26			26.74	137.9	700.	5.30	34.40	27.18	97.5	1.521			
505.	6.26	34.26			26.96	117.8	800.	5.09	34.47	27.27	90.4	1.616			
607.	5.59	34.32			27.09	105.9	1000.	4.42	34.52	27.38	80.6	1.789			
809.	5.08	34.48			27.28	89.9	1200.	3.79	34.54	27.46	73.1	1.945			
1012.	4.38	34.52			27.39	80.2	1500.	3.02	34.58	27.57	63.1	2.152			
1212.	3.75	34.54			27.47	72.7									
1515.	2.99	34.58			27.57	62.7									
CROMWELL 5, STATION 22, 15-59N LAT, 151-3W LNG, JUNE 25, 1964, 2100 G.C.T.				WET BULB 22.8 WIND SPEED 22, DIR. 07				BAR. 14 WEATHER 02				VIS. 7		CLOUD TYPE 4, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELT A	DEPTH	TEMP.	SAL.	SIGMA-T	DELT A	DYN-OPTH.			
0.	25.14	34.70			23.09	478.5	0.	25.14	34.70	23.09	478.5	0.000			
10.	25.12	34.70			23.10	478.3	10.	25.12	34.70	23.10	478.3	0.048			
30. ^Δ	25.02	34.70			23.13	476.2	20.	25.19	34.70	23.06	480.9	0.096			
48.	23.38	34.74			23.65	427.4	30.	25.02	34.70	23.13	476.2	0.145			
73.	22.46	35.03			24.13	382.2	50.	23.27	34.76	23.69	423.0	0.235			
98.	21.76	35.12			24.40	357.9	75.	22.40	35.04	24.16	379.8	0.336			
121.	21.35	35.22			24.58	340.7	100.	21.73	35.13	24.41	356.4	0.429			
147.	19.98	35.08			24.85	316.5	150.	19.81	35.06	24.88	313.5	0.598			
169.	18.20	34.88			25.15	288.1	200.	13.86	34.34	25.72	233.5	0.736			
183.	16.04	34.58			25.43	260.9	250.	10.67	34.26	26.28	180.6	0.840			
217.	12.23	34.21			25.95	211.6	300.	10.06	34.48	26.56	155.1	0.925			
243.	10.93	34.23			26.21	187.3	400.	8.96	34.54	26.78	135.1	1.071			
268.	10.21	34.36			26.44	165.9	500.	7.60	34.49	26.95	119.9	1.200			
291.	10.12	34.46			26.53	157.6	600.	6.59	34.47	27.08	108.1	1.315			
389.	9.11	34.54			26.76	137.1	700.	5.88	34.48	27.18	99.3	1.420			
487.	7.76	34.49			26.93	121.7	800.	5.32	34.49	27.26	91.9	1.517			
584.	6.72	34.47			27.06	109.7	1000.	4.35	34.53	27.39	79.3	1.690			
778.	5.45	34.49			27.24	93.6	1200.	3.68	34.56	27.49	70.4	1.841			
975.	4.44	34.52			27.38	80.6									
1170.	3.83	34.56			27.48	71.9									
1468.	3.11	34.59			27.57	63.1									
CROMWELL 5, STATION 23, 14-28N LAT, 151-3W LNG, JUNE 26, 1964, 0600 G.C.T.				WET BULB 22.8 WIND SPEED 21, DIR. 201.07				BAR. 13 WEATHER 01				VIS. 7		CLOUD TYPE 3, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELT A	DEPTH	TEMP.	SAL.	SIGMA-T	DELT A	DYN-OPTH.			
0.	25.29	34.61			22.98	489.3	0.	25.29	34.61	22.98	489.3	0.000			
8.	25.27	34.60			22.98	489.8	10.	25.31	34.60	22.96	491.4	0.049			
30. ^Δ	25.20	34.60			23.00	488.6	20.	25.37	34.59	22.94	494.2	0.099			
47.	23.58	34.70			23.56	435.8	30.	25.20	34.60	23.00	488.6	0.149			
73.	22.53	35.00			24.09	386.3	50.	23.40	34.74	23.64	420.4	0.241			
98.	21.97	35.07			24.30	367.1	75.	22.49	35.01	24.11	384.6	0.343			
123.	20.84	35.16			24.68	331.8	100.	21.91	35.08	24.33	364.6	0.438			
148.	18.78	34.94			25.05	297.0	150.	18.63	34.92	25.07	294.8	0.604			
172.	16.54	34.64			25.37	267.3	200.	13.01	34.29	25.86	220.4	0.734			
186.	14.48	34.38			25.63	242.4	250.	11.03	34.51	26.41	168.4	0.832			
220.	11.72	34.32			26.13	194.2	300.	9.80	34.52	26.63	148.1	0.912			
246.	11.14	34.50			26.38	171.2	400.	6.43	34.52	26.85	128.2	1.051			
271.	10.45	34.54			26.53	156.8	500.	7.44	34.52	27.00	115.1	1.174			
295.	9.89	34.52			26.62	149.4	600.	6.60	34.52	27.12	104.6	1.285			
395.	8.49	34.52			26.84	128.9	700.	5.90	34.52	27.21	96.2	1.386			
495.	7.49	34.52			26.99	115.7	800.	5.33	34.53	27.29	89.2	1.480			
594.	6.65	34.52			27.11	105.2	1000.	4.47	34.56	27.41	78.3	1.649			
791.	5.37	34.53			27.28	89.7	1200.	3.75	34.57	27.49	70.2	1.600			
988.	4.52	34.56			27.40	78.8									
1186.	3.80	34.56			27.48	71.6									
1482.	2.98	34.61			27.60	60.1									

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 5, STATION 24, 13- ON LAT, 150-57W LONG, JUNE 26, 1964, 1500 D.C.T. DRY BULB 25.3 WET BULB 22.6 WIND SPEED 22, DIR. 07 BAR. 11 WEATHER 01				SIGMA-T 22.6C 506.7 0. 26.29 34.78 22.80 506.7 0.000				V15. 7 CLOUD TYPE 8, COVER 2					
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	26.29	34.78		22.6C	506.7	0.	26.29	34.78	22.80	506.7	0.000		
8.	26.31	34.78		22.79	507.6	10.	26.31	34.78	22.79	507.7	0.051		
30. ^Δ	26.30	34.78		22.86	508.2	20.	26.31	34.78	22.79	508.2	0.102		
50.	26.26	34.78		22.81	507.8	30.	26.30	34.78	22.80	508.2	0.153		
72.	25.76	34.74		22.93	496.7	50.	26.26	34.78	22.81	507.8	0.256		
97.	22.64	34.88		23.97	398.8	75.	25.43	34.76	23.05	465.9	0.381		
120.	20.74	34.86		24.48	350.8	100.	22.39	34.88	24.04	391.9	0.492		
144.	17.88	34.74		25.12	289.9	150.	17.00	34.65	25.26	276.4	0.660		
168.	14.38	34.39		25.65	239.1	200.	11.00	34.20	26.17	189.8	0.777		
182.	12.71	34.34		25.96	210.2	250.	10.31	34.48	26.51	158.8	0.865		
215.	10.14	34.14		26.28	179.8	300.	9.36	34.49	26.68	143.2	0.941		
241.	10.24	34.41		26.47	162.2	400.	8.42	34.56	26.88	125.1	1.077		
266.	10.29	34.54		26.56	154.0	500.	7.45	34.54	27.01	114.0	1.197		
289.	9.56	34.49		26.65	146.1	600.	6.65	34.52	27.11	105.4	1.308		
387.	8.56	34.56		26.86	126.9	700.	5.91	34.52	27.20	96.9	1.410		
484.	7.59	34.54		26.99	115.5	800.	5.28	34.52	27.29	89.3	1.504		
580.	6.81	34.52		27.09	107.2	1000.	4.38	34.54	27.40	78.4	1.674		
775.	5.42	34.52		27.27	90.9	1200.	3.70	34.57	27.49	70.2	1.825		
969.	4.50	34.54		27.39	79.8								
1164.	3.85	34.56		27.47	72.0								
1460.	3.07	34.60		27.58	61.8								
CROMWELL 5, STATION 25, 11-30N LAT, 151- 0W LONG, JUNE 26, 1964, 2400 D.C.T. DRY BULB 26.4 WET BULB 22.9 WIND SPEED 19, DIR. 06 BAR. 12 WEATHER 03				SIGMA-T 22.51 534.7 0. 26.36 34.42 22.51 534.7 0.000				V15. 7 CLOUD TYPE 8, COVER 2					
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	26.36	34.42		22.51	534.7	0.	26.36	34.42	22.51	534.7	0.000		
10.	26.34	34.42		22.51	534.5	10.	26.34	34.42	22.51	534.5	0.054		
30. ^Δ	26.20	34.42		22.56	531.1	20.	26.28	34.42	22.53	533.3	0.108		
50. ^Δ	26.00	34.44		22.63	524.5	30.	26.20	34.42	22.56	531.1	0.161		
77.	23.00	34.76		23.77	416.6	50.	26.00	34.44	22.63	524.5	0.268		
102.	17.88	34.72		25.11	289.9	75.	23.32	34.74	23.66	427.0	0.387		
126.	13.10	34.28		25.83	220.7	100.	18.32	34.74	25.01	299.1	0.479		
153.	11.72	34.58		26.34	173.5	150.	11.77	34.53	26.29	178.1	0.599		
178.	11.51	34.75		26.51	157.8	200.	11.06	34.75	26.59	150.4	0.682		
193.	11.17	34.75		26.57	152.1	250.	10.48	34.72	26.67	143.4	0.756		
227.	10.73	34.74		26.64	146.0	300.	10.03	34.71	26.74	137.6	0.827		
255.	10.43	34.72		26.68	142.9	400.	9.21	34.67	26.85	129.1	0.961		
280.	10.21	34.72		26.72	139.7	500.	8.25	34.63	26.96	119.4	1.087		
306.	9.97	34.71		26.75	137.0	600.	7.31	34.57	27.06	111.2	1.203		
407.	9.15	34.67		26.86	128.5	700.	6.43	34.54	27.16	102.0	1.311		
510.	8.15	34.62		26.97	118.4	800.	5.65	34.54	27.25	93.0	1.410		
613.	7.19	34.56		27.07	110.2	1000.	4.58	34.56	27.39	79.9	1.584		
816.	5.54	34.54		27.27	91.5	1200.	3.86	34.58	27.49	71.1	1.737		
1016.	4.52	34.56		27.40	79.0	1500.	3.04	34.60	27.58	61.8	1.939		
1215.	3.81	34.58		27.49	70.5								
1517.	3.01	34.60		27.59	61.5								
CROMWELL 5, STATION 26, 10- 4N LAT, 148- 3W LONG, JUNE 27, 1964, 1900 D.C.T. DRY BULB 25.8 WET BULB 23.9 WIND SPEED 14, DIR. 04 BAR. 13 WEATHER 02				SIGMA-T 22.51 534.7 0. 26.36 34.42 22.51 534.7 0.000				V15. 7 CLOUD TYPE 4, COVER 6					
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	26.85	34.01		22.04	579.0	0.	26.85	34.01	22.04	579.0	0.000		
10.	26.76	34.01		22.07	576.7	10.	26.76	34.01	22.07	576.7	0.058		
30. ^Δ	26.60	34.02		22.13	571.9	20.	26.74	33.98	22.06	578.3	0.116		
49.	25.55	34.48		22.80	508.3	30.	26.60	34.02	22.13	571.9	0.174		
59.	21.67	34.53		23.97	396.7	50.	25.27	34.49	22.90	499.0	0.282		
68.	16.22	34.36		25.22	277.4	75.	15.06	34.38	25.50	251.1	0.377		
78.	14.93	34.42		25.56	245.7	100.	12.71	34.67	26.21	183.8	0.431		
88.	13.52	34.58		25.98	205.8	150.	11.53	34.75	26.50	157.6	0.517		
98.	12.77	34.66		26.19	185.7	200.	10.84	34.73	26.61	148.0	0.594		
108.	12.56	34.70		26.27	179.1	250.	10.43	34.72	26.68	142.9	0.668		
147.	11.59	34.75		26.49	158.5	300.	10.04	34.69	26.72	139.6	0.739		
196.	10.88	34.73		26.61	148.6	400.	9.35	34.68	26.83	131.0	0.876		
246.	10.46	34.72		26.67	143.2	500.	8.48	34.64	26.94	122.0	1.003		
296.	10.07	34.69		26.72	139.9	600.	7.14	34.58	27.09	107.9	1.119		
396.	9.38	34.68		26.83	131.3	700.	6.22	34.56	27.20	97.9	1.223		
496.	8.53	34.64		26.93	122.6	800.	5.56	34.56	27.28	90.2	1.319		
592.	7.22	34.58		27.08	108.9	1000.	4.53	34.57	27.41	78.3	1.489		
791.	5.62	34.56		27.27	90.8	1200.	3.77	34.58	27.50	69.6	1.639		
989.	4.58	34.57		27.40	78.8								
1186.	3.85	34.58		27.49	70.8								
1487.	3.02	34.62		27.60	59.9								

TEMPERATURE ERROR TERM AT 75. METERS IS 0.18

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL		5, STATION 27, 11-32N LAT, 148-3W LONG, JUNE 28, 1964, 0600 G.C.T.		DRY BULB 26.8 WET BULB 24.2 WIND SPEED 17, DIR. 11		BAR. 13		WEATHER 00		VIS. 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELT A	DEPTH	TEMP.	SAL.	SIGMA-T	DELT A
0.	26.73	34.03			22.10	573.9	0.	26.73	34.03	22.10	573.9
10.	26.71	34.04			22.11	573.0	10.	26.71	34.04	22.11	573.0
30.	26.60	34.06			22.16	569.0	20.	26.68	34.03	22.11	573.1
49.	26.15	34.33			22.50	536.8	30.	26.60	34.06	22.16	569.0
59.	25.35	34.44			22.83	505.7	50.	26.07	34.34	22.54	533.4
69.	25.16	34.45			22.90	499.8	75.	23.77	34.41	23.28	463.1
79.	22.46	34.40			23.65	427.9	100.	15.18	34.39	25.48	254.1
88.	18.90	34.54			24.71	326.8	150.	11.83	34.76	26.46	161.9
98.	15.58	34.38			25.38	263.0	200.	10.93	34.75	26.61	148.0
108.	14.03	34.46			25.78	225.2	250.	10.38	34.74	26.70	140.5
148.	11.89	34.76			26.44	163.3	300.	9.87	34.72	26.77	134.5
199.	10.94	34.75			26.61	148.2	400.	9.03	34.67	26.87	126.6
248.	10.40	34.74			26.70	140.8	500.	8.10	34.62	26.98	117.6
299.	9.86	34.72			26.77	134.6	600.	7.13	34.57	27.08	108.4
397.	9.06	34.67			26.87	126.9	700.	6.29	34.54	27.18	99.5
497.	8.13	34.62			26.98	117.9	800.	5.58	34.55	27.27	91.1
595.	7.17	34.57			27.08	108.9	1000.	4.48	34.57	27.42	77.6
794.	5.62	34.55			27.27	91.6	1200.	3.79	34.59	27.50	69.4
994.	4.50	34.57			27.41	77.8					1.715
1192.	3.90	34.59			27.49	70.7					
1493.	3.19	34.61			27.58	62.8					

CROMWELL		5, STATION 28, 12-57N LAT, 147-58W LONG, JUNE 28, 1964, 1600 G.C.T.		DRY BULB 25.3 WET BULB 23.7 WIND SPEED 22, DIR. 09		BAR. 11		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELT A	DEPTH	TEMP.	SAL.	SIGMA-T	DELT A	OYNOPTH.	
0.	25.95	34.48			22.68	518.1	0.	25.95	34.48	22.68	518.1	0.000	
10.	25.94	34.48			22.68	518.2	10.	25.94	34.48	22.68	518.2	0.052	
49.	25.01	34.45			22.94	494.6	20.	25.76	34.48	22.73	513.8	0.104	
59.	24.79	34.44			23.00	489.4	30.	25.54	34.47	22.80	508.2	0.156	
68.	24.33	34.40			23.11	479.4	50.	24.99	34.45	22.95	494.3	0.257	
78.	24.14	34.40			23.17	474.4	75.	24.20	34.40	23.15	475.9	0.379	
87.	23.64	34.34			23.27	465.0	100.	20.02	34.69	24.54	344.0	0.482	
97.	20.31	34.64			24.43	354.9	150.	12.98	34.31	25.88	216.6	0.623	
107.	19.75	34.76			24.66	332.4	200.	11.45	34.62	26.41	167.1	0.720	
146.	13.27	34.30			25.82	223.0	250.	10.80	34.69	26.59	151.7	0.800	
194.	11.57	34.66			26.38	170.3	300.	10.27	34.72	26.70	141.4	0.874	
243.	10.88	34.68			26.57	153.4	400.	9.00	34.70	26.90	124.1	1.008	
291.	10.38	34.71			26.68	143.6	500.	7.91	34.52	26.93	122.2	1.132	
388.	9.13	34.72			26.90	124.2	600.	6.83	34.54	27.10	106.2	1.248	
486.	8.07	34.52			26.91	124.1	700.	6.03	34.54	27.21	96.5	1.350	
583.	6.98	34.54			27.08	108.2	800.	5.43	34.54	27.28	89.7	1.444	
780.	5.54	34.54			27.27	91.1	1000.	4.49	34.56	27.41	78.3	1.614	
977.	4.58	34.56			27.46	79.4	1200.	3.79	34.58	27.50	69.8	1.764	
1175.	3.88	34.58			27.49	71.0							
1470.	3.18	34.62			27.59	61.8							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.11

CROMWELL		5, STATION 29, 14-32N LAT, 148-0W LONG, JUNE 29, 1964, 0200 G.C.T.		DRY BULB 25.5 WET BULB 23.3 WIND SPEED 19, DIR. 06		BAR. 13		WEATHER 03		VIS. 7		CLOUD TYPE 4, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELT A	DEPTH	TEMP.	SAL.	SIGMA-T	DELT A	OYNOPTH.	
0.	25.27	34.48			22.89	498.1	0.	25.27	34.48	22.89	498.1	0.000	
10.	25.24	34.48			22.90	497.6	10.	25.24	34.48	22.90	497.6	0.050	
51.	25.06	34.47			22.94	494.7	20.	25.20	34.47	22.90	497.5	0.100	
76.	24.93	34.53			23.03	487.6	30.	25.16	34.47	22.91	497.0	0.150	
101.	22.52	34.88			24.00	395.7	50.	25.07	34.47	22.94	494.9	0.250	
125.	19.42	34.72			24.72	327.8	75.	24.96	34.52	23.02	488.8	0.374	
151.	15.65	34.50			25.46	257.3	100.	22.65	34.87	23.96	400.0	0.486	
176.	12.72	34.26			25.89	216.1	150.	15.79	34.51	25.44	259.7	0.652	
191.	11.69	34.21			26.05	201.0	200.	11.33	34.24	26.14	192.8	0.766	
224.	10.77	34.38			26.35	173.1	250.	10.34	34.52	26.53	156.4	0.854	
251.	10.33	34.52			26.54	155.8	300.	9.68	34.58	26.70	141.7	0.930	
276.	9.95	34.56			26.64	147.0	400.	8.89	34.62	26.86	127.8	1.065	
301.	9.67	34.58			26.70	141.5	500.	7.61	34.52	26.98	117.5	1.189	
402.	8.87	34.62			26.86	127.6	600.	6.74	34.51	27.09	107.2	1.303	
501.	7.60	34.52			26.98	117.4	700.	6.06	34.51	27.18	99.4	1.407	
601.	6.73	34.51			27.09	107.1	800.	5.49	34.51	27.25	92.9	1.504	
800.	5.49	34.51			27.25	92.9	1000.	4.48	34.53	27.38	80.6	1.680	
1000.	4.48	34.53			27.38	80.6	1200.	3.78	34.56	27.48	71.9	1.834	
1198.	3.84	34.56			27.47	72.2							
1498.	3.11	34.58			27.56	64.0							

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL	5, STATION	30, 16- ON LAT, 147-58W LONG, JUNE 29, 1964, 1200 C.C.T.										
DRY BULB 24.3	WET BULB 22.2	WIND SPEED 19, DIR. 04	BAR. 14	WEATHER 02	VIS. 7	CLOUD TYPE 4, COVER 2						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	25.15	34.62			23.03	484.5	0.	25.15	34.62	23.03	484.5	0.000
10.	25.16	34.62			23.03	485.2	10.	25.16	34.62	23.03	485.2	0.049
30. ^Δ	25.15	34.62			23.03	485.7	20.	25.16	34.62	23.03	485.5	0.098
50. ^Δ	25.15	34.62			23.03	486.5	30.	25.15	34.62	23.03	485.7	0.147
75. ^Δ	25.12	34.62			23.04	486.6	50.	25.15	34.62	23.03	486.5	0.245
98.	23.09	34.77			23.75	419.1	75.	25.12	34.62	23.04	486.6	0.367
121.	21.65	34.96			24.3C	367.4	100.	22.94	34.79	23.81	413.9	0.481
146.	20.69	35.05			24.64	336.7	150.	20.36	35.03	24.71	330.0	0.668
170.	18.20	34.79			25.68	294.7	200.	14.67	34.38	25.58	247.0	0.813
184.	16.37	34.54			25.33	271.2	250.	11.51	34.30	26.16	192.5	0.924
217.	13.27	34.30			25.82	224.8	300.	9.61	34.34	26.53	157.9	1.013
243.	11.81	34.28			26.09	199.3	400.	8.65	34.46	26.81	132.5	1.159
269.	10.77	34.36			26.34	175.5	500.	7.46	34.48	26.97	118.3	1.286
293.	9.78	34.34			26.49	160.8	600.	6.95	34.48	27.03	112.7	1.402
390.	8.57	34.46			26.78	134.5	700.	6.28	34.49	27.13	104.0	1.512
489.	7.51	34.48			26.96	118.8	800.	5.17	34.52	27.30	87.8	1.609
682.	6.50	34.48			27.1C	107.3	1000.	4.32	34.54	27.41	77.5	1.776
781.	5.31	34.52			27.28	89.6	1200.	3.66	34.58	27.51	68.7	1.924
977.	4.40	34.54			27.4C	78.6						
1176.	3.78	34.58			27.5C	69.8						
1467.	3.00	34.62			27.6C	59.5						

TEMPERATURE ERROR TERM AT 60C. METERS IS 0.13

CROMWELL	5, STATION	31, 17-28N LAT, 147-57W LONG, JUNE 29, 1964, 2100 C.C.T.										
DRY BULB 25.3	WET BULB 22.8	WIND SPEED 21, DIR. 07	BAR. 16	WEATHER 02	VIS. 7	CLOUD TYPE 8, COVER 6						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	25.44	34.78			23.06	481.5	0.	25.44	34.78	23.06	481.5	0.000
10.	25.41	34.78			23.07	481.0	10.	25.41	34.78	23.07	481.0	0.048
30. ^Δ	25.18	34.78			23.14	475.1	20.	25.31	34.78	23.10	478.4	0.097
51.	24.95	34.78			23.21	469.2	30.	25.18	34.78	23.14	475.1	0.145
77.	22.72	35.00			24.03	391.6	50.	24.98	34.78	23.20	470.1	0.240
101.	22.05	35.13			24.32	365.0	75.	22.90	34.98	23.97	397.9	0.349
126.	20.43	35.16			24.79	321.4	100.	22.07	35.13	24.31	365.9	0.446
153.	19.46	35.04			24.95	306.6	150.	19.57	35.06	24.94	307.7	0.615
179.	17.68	34.81			25.22	281.3	200.	15.47	34.52	25.51	253.9	0.757
194.	16.18	34.60			25.42	262.9	250.	11.19	34.14	26.09	198.4	0.871
227.	12.59	34.22			25.89	217.8	300.	9.61	34.19	26.41	169.0	0.964
253.	11.05	34.14			26.12	196.2	400.	8.38	34.40	26.77	136.2	1.118
279.	9.98	34.16			26.32	177.0	500.	7.16	34.43	26.97	117.5	1.246
305.	9.55	34.20			26.42	167.6	600.	6.32	34.44	27.09	106.6	1.359
405.	8.33	34.41			26.78	134.8	700.	5.68	34.46	27.19	98.0	1.462
507.	7.08	34.43			26.98	116.6	800.	5.14	34.48	27.27	90.7	1.557
607.	6.27	34.44			27.10	106.0	1000.	4.20	34.50	27.39	79.0	1.729
810.	5.09	34.48			27.27	90.0	1200.	3.58	34.54	27.49	70.4	1.881
981.	4.26	34.50			27.38	79.9						
1105.	3.91	34.53			27.44	74.5						
1330.	3.25	34.56			27.53	66.0						

CROMWELL	5, STATION	32, 19- ON LAT, 148- 0W LONG, JUNE 30, 1964, 0700 C.C.T.										
DRY BULB 24.4	WET BULB 21.7	WIND SPEED 21, DIR. 05	BAR. 16	WEATHER 02	VIS. 7	CLOUD TYPE 8, COVER 3						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	24.63	34.73			23.27	461.6	0.	24.63	34.73	23.27	461.6	0.000
11. ^Δ	24.65	34.75			23.28	461.2	10.	24.65	34.75	23.28	461.2	0.046
30. ^Δ	24.60	34.73			23.28	461.9	20.	24.63	34.74	23.28	461.7	0.093
50. ^Δ	24.54	34.78			23.34	457.4	30.	24.60	34.73	23.28	461.9	0.139
78.	23.33	34.89			23.78	416.4	50.	24.54	34.78	23.34	457.4	0.232
90.	23.17	34.98			23.89	405.9	75.	23.46	34.87	23.72	421.1	0.343
103.	22.64	35.08			24.12	384.7	100.	22.79	35.06	24.06	389.8	0.445
136.	20.65	34.86			24.50	349.0	150.	18.86	34.70	24.85	316.1	0.623
154.	18.34	34.66			24.95	306.9	200.	14.20	34.30	25.63	242.6	0.764
174.	16.58	34.50			25.25	278.5	250.	10.48	34.11	26.19	188.7	0.872
217.	12.69	34.20			25.85	221.0	300.	8.77	34.11	26.48	161.6	0.961
236.	11.19	34.13			26.08	199.0	400.	7.82	34.28	26.75	136.8	1.111
266.	9.88	34.10			26.29	179.5	500.	6.82	34.35	26.95	119.0	1.240
292.	8.92	34.10			26.45	164.7	600.	5.99	34.41	27.11	104.4	1.353
411.	7.83	34.30			26.77	135.5	700.	5.39	34.46	27.22	94.3	1.454
513.	6.68	34.35			26.97	117.0	800.	4.91	34.49	27.30	87.2	1.545
614.	5.90	34.42			27.13	102.6	1000.	4.17	34.54	27.42	76.3	1.711
817.	4.84	34.49			27.31	86.2	1200.	3.61	34.57	27.50	68.8	1.858
1020.	4.11	34.54			27.43	75.4	1500.	2.87	34.61	27.61	59.1	2.052
1222.	3.55	34.57			27.51	68.1						
1524.	2.82	34.61			27.61	58.5						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL	5, STATION	33, 20-32N LAT, 148- LW LENG, JUNE 30, 1964, 1600 G.C.T.										
ORY BULB 24.0	WET BULB 20.0	WIND SPEED 18, DIR. 04		BAR. 19	WEATHER 01		VIS. 9	CLOUD	TYPE 4, COVER 3			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	24.23	34.75			23.41	448.7	0.	24.23	34.75	23.41	448.7	0.000
10.	24.22	34.75			23.41	448.8	10.	24.22	34.75	23.41	448.8	0.045
20.	24.22	34.75			23.41	449.2	20.	24.22	34.75	23.41	449.2	0.090
30.	24.23	34.75			23.41	449.9	30.	24.23	34.75	23.41	449.9	0.136
49.	23.16	35.08			23.97	396.9	50.	23.13	35.09	23.98	395.7	0.221
73.	22.72	35.11			24.12	383.5	75.	22.69	35.11	24.13	382.6	0.319
96.	22.31	35.14			24.26	371.1	100.	22.21	35.15	24.29	367.7	0.413
120.	21.69	35.22			24.49	349.6	150.	20.74	35.22	24.76	325.4	0.588
146.	20.99	35.25			24.71	330.0	200.	17.98	34.87	25.20	284.7	0.742
169.	19.45	35.07			24.98	304.7	250.	14.35	34.40	25.67	239.8	0.874
183.	18.75	34.98			25.09	294.5	300.	11.79	34.18	26.01	207.8	0.987
216.	17.07	34.74			25.32	273.4	400.	8.68	34.18	26.54	157.3	1.171
241.	14.85	34.46			25.61	245.8	500.	6.55	34.20	26.87	126.3	1.314
266.	13.60	34.33			25.77	230.4	600.	5.73	34.32	27.07	107.8	1.433
290.	12.23	34.20			25.94	214.1	700.	5.17	34.39	27.19	96.8	1.536
387.	9.05	34.18			26.49	162.6	800.	4.79	34.43	27.27	89.6	1.630
484.	6.76	34.18			26.83	130.2	1000.	4.15	34.51	27.40	77.9	1.800
580.	5.86	34.30			27.04	110.6	1200.	3.59	34.56	27.50	69.5	1.949
774.	4.89	34.42			27.25	91.5						
958.	4.27	34.50			27.38	79.8						
1135.	3.80	34.54			27.46	72.7						
1401.	3.06	34.57			27.56	63.5						
CROMWELL				CROMWELL				CROMWELL				
5, STATION	34, 21-59N LAT, 147-57W LNG, JULY 1, 1964, 0200 G.C.T.			5, STATION	34, 21-59N LAT, 147-57W LNG, JULY 1, 1964, 0200 G.C.T.			5, STATION	34, 21-59N LAT, 147-57W LNG, JULY 1, 1964, 0200 G.C.T.			
ORY BULB 23.4	WET BULB 20.0	WIND SPEED 18, DIR. 05		ORY BULB 23.4	WET BULB 20.0	WIND SPEED 18, DIR. 05		ORY BULB 23.4	WET BULB 20.0	WIND SPEED 18, DIR. 05		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	23.92	34.86			23.58	432.0	0.	23.92	34.86	23.58	432.0	0.000
9.	23.89	34.87			23.60	430.8	10.	23.87	34.88	23.61	429.3	0.043
30.	23.46	35.19			23.96	396.5	20.	23.68	35.03	23.78	413.7	0.086
48.	23.31	35.22			24.03	390.9	30.	23.46	35.19	23.96	396.5	0.127
72.	21.96	35.22			24.42	355.0	50.	23.21	35.22	24.06	388.2	0.206
96.	21.34	35.30			24.65	333.7	75.	21.87	35.23	24.45	351.8	0.299
119.	20.61	35.23			24.79	320.7	100.	21.21	35.29	24.68	331.1	0.385
143.	20.10	35.20			24.91	310.7	150.	19.75	35.15	24.96	305.7	0.545
166.	18.90	35.02			25.08	294.7	200.	17.24	34.77	25.30	274.7	0.692
181.	18.36	34.93			25.15	288.7	250.	14.08	34.37	25.70	236.9	0.821
213.	16.36	34.65			25.41	263.8	300.	11.33	34.13	26.06	202.9	0.931
239.	14.79	34.46			25.62	244.5	400.	8.44	34.08	26.50	161.0	1.115
264.	13.18	34.26			25.80	227.2	500.	6.59	34.12	26.80	132.4	1.263
287.	11.88	34.16			25.98	210.5	600.	5.62	34.25	27.03	111.3	1.386
383.	8.86	34.08			26.44	166.9	700.	5.01	34.36	27.19	96.6	1.491
479.	6.88	34.10			26.75	137.7	800.	4.61	34.44	27.30	86.8	1.584
575.	5.81	34.22			26.98	115.8	1000.	3.97	34.52	27.43	74.7	1.747
766.	4.74	34.42			27.27	89.6	1200.	3.39	34.57	27.53	65.9	1.890
957.	4.11	34.51			27.41	77.1						
1147.	3.51	34.56			27.51	67.8						
1433.	2.88	34.59			27.59	60.1						
CROMWELL				CROMWELL				CROMWELL				
5, STATION	35, 23-28N LAT, 147-56W LNG, JULY 1, 1964, 1200 G.C.T.			5, STATION	35, 23-28N LAT, 147-56W LNG, JULY 1, 1964, 1200 G.C.T.			5, STATION	35, 23-28N LAT, 147-56W LNG, JULY 1, 1964, 1200 G.C.T.			
ORY BULB 22.6	WET BULB 18.9	WIND SPEED 17, DIR. 05		ORY BULB 22.6	WET BULB 18.9	WIND SPEED 17, DIR. 05		ORY BULB 22.6	WET BULB 18.9	WIND SPEED 17, DIR. 05		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	23.32	35.20			24.01	393.7	0.	23.32	35.20	24.01	390.7	0.000
9.	23.31	35.20			24.02	390.8	10.	23.31	35.20	24.02	390.9	0.039
30.	23.30	35.20			24.02	391.3	20.	23.31	35.20	24.02	391.2	0.079
48.	23.25	35.21			24.04	389.9	30.	23.30	35.20	24.02	391.3	0.118
73.	21.51	35.28			24.59	338.8	50.	23.12	35.22	24.08	386.1	0.196
96.	20.96	35.25			24.71	327.4	75.	21.44	35.28	24.60	337.2	0.288
121.	20.32	35.22			24.86	314.0	100.	20.87	35.25	24.74	325.3	0.371
146.	19.32	35.06			25.00	301.4	150.	19.18	35.04	25.02	299.7	0.529
169.	18.46	34.93			25.12	290.7	200.	16.65	34.68	25.37	267.4	0.671
183.	17.71	34.82			25.22	281.4	250.	13.21	34.28	25.81	226.1	0.796
216.	15.54	34.55			25.52	253.2	300.	11.24	34.14	26.08	200.4	0.903
242.	13.63	34.32			25.76	231.1	400.	8.46	34.03	26.47	164.4	1.087
266.	12.51	34.22			25.90	217.3	500.	6.36	34.05	26.78	134.7	1.239
291.	11.54	34.16			26.04	204.4	600.	5.24	34.14	26.99	114.7	1.364
387.	8.80	34.04			26.42	169.0	700.	4.68	34.26	27.15	100.1	1.473
485.	6.60	34.04			26.74	138.4	800.	4.40	34.37	27.27	89.2	1.569
582.	5.38	34.12			26.96	117.8	1000.	3.93	34.51	27.43	75.4	1.735
776.	4.47	34.35			27.24	91.6	1200.	3.48	34.57	27.52	67.0	1.879
970.	4.00	34.50			27.41	76.6						
1165.	3.58	34.54			27.48	70.2						
1459.	2.89	34.60			27.60	59.6						

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL 5, STATION 36, 25- ON LAT, 147-57W LONG, JULY 2, 1964, 0400 G.C.T.				WET BULB 19.2 WIND SPEED 16, DIR. 04 BAR. 20 WEATHER 02				VIS. 8 CLOUD TYPE 8, COVER 5			
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	CELTIA	DYN. DPTH.
0.	23.32	35.24		24.04	387.9	0.	23.32	35.24	24.04	387.9	0.000
10. ^Δ	23.32	35.24		24.04	388.2	10.	23.32	35.24	24.04	388.2	0.039
30. ^Δ	23.14	35.25		24.10	383.3	20.	23.30	35.24	24.05	388.1	0.078
48.	22.23	35.33		24.42	353.4	30.	23.14	35.25	24.10	383.3	0.117
73.	21.23	35.34		24.70	328.4	50.	22.14	35.33	24.45	350.8	0.191
96.	20.81	35.30		24.79	319.9	75.	21.23	35.34	24.71	327.5	0.276
119.	20.26	35.28		24.93	308.1	100.	20.73	35.30	24.82	317.9	0.358
141.	19.37	35.12		25.04	298.1	150.	18.89	35.05	25.10	291.9	0.511
164.	18.08	34.92		25.21	282.2	200.	15.99	34.60	25.46	258.7	0.650
177.	17.36	34.79		25.29	275.2	250.	12.57	34.22	25.90	217.6	0.770
207.	15.54	34.55		25.52	253.0	300.	10.91	34.11	26.12	197.4	0.875
232.	13.78	34.34		25.74	232.4	400.	8.39	34.03	26.48	163.4	1.057
255.	12.29	34.20		25.93	214.2	500.	6.48	34.03	26.74	137.9	1.209
277.	11.58	34.14		26.02	206.2	600.	5.34	34.12	26.96	117.5	1.338
366.	9.20	34.06		26.37	173.4	700.	4.73	34.24	27.12	102.5	1.449
453.	7.28	34.01		26.62	149.6	800.	4.35	34.34	27.25	91.2	1.547
543.	5.88	34.06		26.85	128.1	1000.	3.85	34.47	27.40	77.1	1.717
720.	4.66	34.26		27.15	100.0	1200.	3.38	34.54	27.51	67.9	1.864
898.	4.09	34.42		27.34	83.0						
1080.	3.68	34.50		27.44	73.7						
1356.	3.06	34.55		27.54	64.7						

CROMWELL 5, STATION 37, 26-32N LAT, 147-56W LONG, JULY 2, 1964, 1500 G.C.T.				WET BULB 17.6 WIND SPEED 18, CIR. 06 BAR. 22 WEATHER 03				VIS. 8 CLOUD TYPE 6, COVER 7			
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	22.32	35.37		24.43	351.1	0.	22.32	35.37	24.43	351.1	0.000
10. ^Δ	22.32	35.38		24.44	350.8	10.	22.32	35.38	24.44	350.8	0.035
20. ^Δ	22.32	35.38		24.44	351.2	20.	22.32	35.38	24.44	351.2	0.071
30. ^Δ	22.32	35.38		24.44	351.6	30.	22.32	35.38	24.44	351.6	0.106
49.	20.97	35.34		24.78	319.4	50.	20.93	35.34	24.79	318.6	0.174
73.	20.51	35.34		24.90	308.5	75.	20.49	35.34	24.91	308.0	0.253
97.	20.36	35.34		24.94	305.5	100.	20.35	35.34	24.95	305.3	0.330
121.	20.29	35.34		24.96	304.6	150.	20.24	35.34	24.98	304.4	0.483
146.	20.25	35.34		24.97	304.5	200.	19.69	35.19	25.01	302.9	0.636
169.	20.22	35.34		24.98	304.5	250.	16.86	34.72	25.35	271.2	0.781
184.	20.23	35.34		24.98	305.3	300.	13.36	34.32	25.82	227.0	0.907
207.	19.35	35.11		25.03	300.7	400.	10.23	34.16	26.28	183.7	1.114
243.	17.39	34.80		25.29	277.3	500.	7.97	34.05	26.55	157.8	1.286
267.	15.51	34.53		25.52	255.6	600.	6.05	34.04	26.81	132.9	1.433
291.	13.81	34.36		25.75	233.1	700.	5.03	34.15	27.02	112.6	1.557
387.	10.56	34.18		26.24	187.7	800.	4.51	34.29	27.19	97.0	1.663
484.	8.34	34.06		26.51	162.1	1000.	3.91	34.44	27.37	80.2	1.842
581.	6.31	34.02		26.76	137.3	1200.	3.43	34.54	27.50	68.9	1.994
774.	4.63	34.26		27.15	100.2						
969.	3.98	34.42		27.35	82.3						
1162.	3.56	34.52		27.47	71.5						
1459.	2.91	34.58		27.58	61.3						

CROMWELL 5, STATION 38, 25- ON LAT, 151-0W LONG, JULY 3, 1964, 0800 G.C.T.				WET BULB 19.9 WIND SPEED 16, CIR. 06 BAR. 21 WEATHER 02				VIS. 7 CLOUD TYPE 7, COVER			
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	CELTIA	DYN. DPTH.
0.	23.76	35.17		23.86	405.2	0.	23.76	35.17	23.86	405.2	0.000
9. ^Δ	23.76	35.17		23.86	405.5	10.	23.76	35.17	23.86	405.6	0.041
20. ^Δ	23.78	35.17		23.86	406.5	20.	23.78	35.17	23.86	406.5	0.082
30. ^Δ	23.80	35.17		23.85	407.5	30.	23.80	35.17	23.85	407.5	0.123
50.	23.03	35.32		24.19	376.0	50.	23.03	35.32	24.19	376.0	0.202
76.	21.79	35.33		24.55	342.7	75.	21.83	35.33	24.54	343.7	0.292
100.	21.25	35.32		24.69	330.1	100.	21.25	35.32	24.69	330.1	0.377
126.	20.91	35.32		24.78	322.2	150.	20.02	35.19	24.92	309.7	0.538
151.	19.97	35.18		24.93	309.1	200.	17.73	34.84	25.23	281.0	0.687
177.	18.77	34.98		25.08	294.8	250.	14.42	34.42	25.67	240.2	0.819
191.	18.13	34.89		25.17	286.5	300.	11.97	34.19	25.98	210.4	0.932
225.	16.37	34.67		25.43	263.0	400.	8.64	34.06	26.46	165.2	1.122
252.	14.27	34.40		25.69	238.5	500.	6.60	34.06	26.75	137.4	1.274
279.	12.92	34.25		25.85	223.3	600.	5.37	34.13	26.97	117.0	1.403
304.	11.80	34.18		26.01	207.9	700.	4.76	34.26	27.14	101.1	1.513
405.	8.52	34.06		26.48	163.5	800.	4.46	34.39	27.27	89.0	1.609
508.	6.48	34.06		26.77	135.6	1000.	3.97	34.51	27.42	76.0	1.776
608.	5.30	34.14		26.98	115.6	1200.	3.41	34.55	27.51	67.9	1.922
810.	4.45	34.40		27.28	88.0						
1012.	3.94	34.51		27.42	75.5						
1167.	3.45	34.54		27.50	68.7						
1389.	2.97	34.54		27.54	64.6						

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL 5, STATION 39, 24-58N LAT, 154-0W LONG, JULY 3, 1964, 2300 G.C.T.		WET BULB 20.5 WIND SPEED 19, DIR. 09		BAR. 22 WEATHER 01		VIS. 8		CLOUD TYPE 6, COVER 2			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.30	34.91		23.5C	439.2	0.	24.30	34.91	23.50	439.2	0.000
10.	24.27	34.91		23.51	438.7	10.	24.27	34.91	23.51	438.7	0.044
30. ^A	24.24	34.91		23.52	438.7	20.	24.25	34.91	23.52	438.6	0.088
51.	24.23	34.91		23.53	439.2	30.	24.24	34.91	23.52	438.7	0.133
75. ^A	23.23	34.95		23.85	409.2	50.	24.24	34.91	23.52	439.4	0.221
77.	23.23	34.95		23.85	409.2	75.	23.23	34.95	23.85	409.2	0.328
101.	22.65	35.13		24.15	381.2	100.	22.69	35.12	24.13	383.0	0.428
126.	21.11	35.12		24.57	341.6	150.	20.36	35.10	24.76	325.1	0.606
153.	20.28	35.09		24.76	323.6	200.	17.92	34.84	25.19	285.6	0.760
177.	19.24	35.00		24.98	304.9	250.	15.38	34.55	25.56	251.0	0.895
192.	18.42	34.91		25.12	292.0	300.	12.74	34.29	25.91	217.8	1.014
226.	16.39	34.62		25.38	267.1	400.	9.32	34.09	26.38	173.7	1.211
253.	15.26	34.54		25.58	249.0	500.	7.04	34.02	26.66	146.1	1.372
279.	13.84	34.38		25.76	231.9	600.	5.56	34.06	26.88	124.9	1.509
304.	12.54	34.27		25.94	215.2	700.	4.71	34.16	27.07	107.5	1.627
404.	9.23	34.09		26.39	172.4	800.	4.23	34.29	27.22	93.3	1.728
505.	6.95	34.02		26.68	145.0	1000.	3.66	34.46	27.41	76.2	1.900
605.	5.50	34.06		26.89	124.0	1200.	3.32	34.53	27.50	68.2	2.046
807.	4.21	34.30		27.23	92.5						
1008.	3.65	34.46		27.41	75.7						
1209.	3.32	34.53		27.50	68.2						
1442.	2.87	34.58		27.59	60.2						

CROMWELL 5, STATION 40, 25- IN EAT, 156-59W LONG, JULY 4, 1964, 1400 G.C.T.				WET BULB 20.8 WIND SPEED 16, DIR. C6				BAR. 20 WEATHER 02				VIS. 7		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	24.33	35.12		23.65	424.9	0.	24.33	35.12	23.65	424.9	0.000				
10.	24.35	35.12		23.65	425.9	10.	24.35	35.12	23.65	425.9	0.043				
30. ^A	24.35	35.12		23.65	426.7	20.	24.36	35.12	23.65	426.4	0.086				
50. ^A	24.30	35.12		23.66	426.0	30.	24.35	35.12	23.65	426.7	0.129				
74.	23.54	35.12		23.89	405.5	50.	24.30	35.12	23.66	426.0	0.215				
97.	22.74	35.10		24.10	385.7	75.	23.52	35.12	23.89	405.0	0.319				
120.	20.46	34.94		24.61	337.8	100.	22.47	35.08	24.17	379.8	0.418				
145.	18.41	34.77		25.01	300.3	150.	18.28	34.78	25.06	296.4	0.569				
169.	17.76	34.81		25.20	282.8	200.	15.62	34.57	25.52	252.8	0.727				
184.	16.66	34.69		25.38	266.8	250.	12.96	34.30	25.88	219.4	0.846				
216.	14.69	34.47		25.65	241.1	300.	10.93	34.19	26.17	191.8	0.950				
242.	13.39	34.34		25.82	224.9	400.	8.24	34.06	26.52	159.2	1.127				
267.	12.11	34.24		26.00	208.4	500.	6.43	34.02	26.75	137.5	1.277				
292.	11.20	34.20		26.14	195.4	600.	5.16	34.11	26.97	116.3	1.405				
388.	8.50	34.07		26.49	162.1	700.	4.52	34.23	27.14	100.5	1.514				
486.	6.66	34.02		26.71	140.7	800.	4.19	34.34	27.27	88.9	1.610				
579.	5.34	34.08		26.93	120.2	1000.	3.66	34.47	27.42	75.2	1.776				
771.	4.30	34.32		27.24	91.7	1200.	3.22	34.55	27.52	65.8	1.919				
964.	3.74	34.45		27.40	77.2										
1157.	3.35	34.53		27.50	68.2										
1444.	2.72	34.58		27.60	59.0										

CROMWELL 5, STATION 41, 23-31N LAT, 156-58W LONG, JULY 4, 1964, 2300 G.C.T.				WET BULB 20.2 WIND SPEED 12, DIR. 10				BAR. 21 WEATHER 03				VIS. 7		CLOUD TYPE 6, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	24.69	35.01		23.46	443.1	0.	24.69	35.01	23.46	443.1	0.000				
9. ^A	24.69	35.00		23.46	444.2	10.	24.69	35.00	23.45	444.4	0.045				
30. ^A	24.64	35.02		23.49	442.2	20.	24.70	35.00	23.45	445.0	0.089				
49.	24.16	35.14		23.72	420.5	30.	24.64	35.02	23.49	442.2	0.134				
74.	23.34	35.17		23.98	396.3	50.	24.13	35.14	23.73	419.5	0.221				
99.	22.50	35.20		24.25	372.0	75.	23.31	35.17	24.00	395.3	0.324				
122.	21.84	35.20		24.43	355.1	100.	22.47	35.20	24.26	371.3	0.420				
149.	20.78	35.11		24.66	334.8	150.	20.71	35.10	24.67	333.8	0.598				
172.	18.84	34.86		24.97	305.0	200.	16.83	34.77	25.40	265.4	0.749				
185.	17.73	34.84		25.23	280.5	250.	14.34	34.49	25.74	233.0	0.874				
218.	15.97	34.66		25.51	254.7	300.	12.42	34.32	26.00	208.8	0.986				
245.	14.60	34.52		25.71	236.4	400.	9.65	34.12	26.34	177.1	1.180				
271.	13.35	34.40		25.88	220.5	500.	7.27	34.05	26.66	146.9	1.344				
294.	12.60	34.34		25.98	210.9	600.	5.62	34.11	26.92	122.0	1.480				
391.	9.88	34.13		26.31	179.9	700.	4.98	34.24	27.10	105.1	1.595				
477.	7.80	34.06		26.59	153.9	800.	4.60	34.37	27.24	92.1	1.694				
569.	5.92	34.07		26.85	128.2	1000.	3.86	34.51	27.43	74.4	1.863				
757.	4.86	34.33		27.18	97.6	1200.	3.30	34.56	27.53	65.7	2.005				
886.	4.14	34.43		27.34	82.7										
996.	3.87	34.51		27.43	74.5										
1183.	3.38	34.55		27.51	67.3										
1200.**	3.30**	34.56**		27.53	65.7										

TEMPERATURE ERROR TERM AT 700. METERS IS 0.13

APROM BT DATA

**EXTRAPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL DRY BULB 23.8		5, STATION 42, 22- ON LAT, 156-58W LONG, JULY 5, 1964, 0900 G.C.T. WET BULB 21.7 WIND SPEED 20, CIR. 08		BAR. 19 WEATHER 02		VIS. 7		CLOUD TYPE , COVER			
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	OXY. DPTH.
0.	24.52	34.86		23.40	449.1	0.	24.52	34.86	23.40	449.1	0.000
10.	24.52	34.86		23.40	449.5	10.	24.52	34.86	23.40	449.5	0.045
30. ^Δ	24.52	34.86		23.40	450.2	20.	24.59	34.86	23.38	451.8	0.091
46.	23.72	34.85		23.63	428.9	30.	24.52	34.86	23.40	450.2	0.136
67.	23.38	34.90		23.77	416.6	50.	23.62	34.86	23.67	425.8	0.224
91.	23.14	34.95		23.88	407.3	75.	23.30	34.92	23.80	413.6	0.330
112.	22.83	35.02		24.02	394.5	100.	23.00	34.98	23.94	401.7	0.433
134.	22.68	35.06		24.09	388.4	150.	22.47	35.14	24.21	377.7	0.629
157.	22.34	35.17		24.27	372.1	200.	20.42	35.12	24.76	326.6	0.807
170.	21.97	35.18		24.38	361.8	250.	17.43	34.79	25.27	279.3	0.959
200.	20.42	35.12		24.76	326.6	300.	14.64	34.50	25.68	240.4	1.090
226.	19.09	35.00		25.02	302.9	400.	9.61	34.14	26.37	174.5	1.300
248.	17.53	34.80		25.25	280.7	500.	6.99	34.13	26.75	137.7	1.457
270.	16.56	34.70		25.41	266.5	600.	5.76	34.21	26.98	116.4	1.586
349.	11.48	34.20		26.09	201.7	700.	5.42	34.36	27.14	102.2	1.696
435.	8.68	34.16		26.53	159.1	800.	5.07	34.44	27.25	92.3	1.794
522.	6.53	34.12		26.81	132.0	1000.	4.33	34.52	27.39	79.4	1.968
714.	5.43	34.38		27.15	100.7	1200.	3.68	34.56	27.49	70.3	2.120
873.	4.80	34.48		27.31	87.0						
1048.	4.16	34.53		27.42	77.1						
1283.	3.44	34.56		27.51	68.0						

TEMPERATURE ERROR TERM AT 300. METERS IS 0.19

TEMPERATURE ERROR TERM AT 600. METERS IS 0.19

Table 3.--Original and derived oceanographic data for Townsend Cromwell cruise 6

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL 6, STATION 1, 20-34N LAT, 157-17W LCNG, JULY 14, 1964, 0900 G.C.T. DRY BULB 25.5 WET BULB 21.2 WIND SPEED 18, DIR. 10 BAR. 21 WEATHER 02 V15. 6 CLOUD TYPE 8, COVER 3											
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
1.	25.74	34.81		22.99	488.2	0.	25.74	34.81	22.99	488.2	0.000
10.	25.74	34.80		22.98	489.3	10.	25.74	34.80	22.98	489.3	0.049
50. ^A	25.52	34.79		23.04	485.1	20.	25.71	34.79	22.99	489.0	0.098
76.	25.33	34.79		23.10	480.6	30.	25.66	34.79	23.00	488.3	0.148
99.	24.73	34.95		23.41	452.5	50.	25.52	34.79	23.04	485.1	0.246
123.	24.78	35.18		23.56	438.4	75.	25.34	34.79	23.10	481.0	0.367
150.	20.81	35.06		24.61	339.2	100.	24.76	34.96	23.41	452.5	0.485
174.	18.96	34.92		24.99	303.7	150.	20.81	35.06	24.61	339.2	0.685
188.	18.44	34.86		25.07	295.9	200.	17.69	34.78	25.20	284.1	0.842
221.	16.19	34.63		25.44	261.8	250.	14.39	34.43	25.68	230.7	0.973
248.	14.52	34.44		25.66	240.6	300.	11.88	34.26	26.05	203.8	1.085
273.	12.96	34.33		25.90	218.1	400.	8.70	34.14	26.51	160.4	1.269
298.	11.96	34.26		26.04	204.9	500.	6.67	34.15	26.82	131.1	1.416
397.	8.78	34.14		26.50	161.5	600.	5.78	34.28	27.03	111.6	1.538
496.	6.72	34.15		26.81	132.1	700.	5.36	34.35	27.14	101.6	1.646
593.	5.82	34.27		27.02	112.4	800.	5.07	34.41	27.22	95.0	1.746
789.	5.12	34.40		27.21	96.1	1000.	4.18	34.50	27.39	79.4	1.922
974.	4.26	34.49		27.38	80.6	1200.	3.57	34.54	27.48	70.6	2.074
1180.	3.71	34.52		27.46	73.4						
1473.	2.95	34.56		27.56	63.4						
CROMWELL 6, STATION 2, 19- ON LAT, 156-58W LCNG, JULY 14, 1964, 1900 G.C.T. DRY BULB 25.5 WET BULB 22.0 WIND SPEED 18, DIR. 14 BAR. 20 WEATHER 01 V15. 6 CLOUD TYPE 3, COVER 2											
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
1.	25.39	34.74		23.05	482.9	0.	25.39	34.74	23.05	482.9	0.000
6.	25.41	34.75		23.05	483.0	10.	25.39	34.75	23.05	482.6	0.049
10.	25.33	34.75		23.07	481.1	20.	25.32	34.75	23.08	480.8	0.097
50. ^A	25.06	34.75		23.16	474.5	30.	25.24	34.75	23.10	479.0	0.145
83.	24.65	34.74		23.27	464.7	50.	25.06	34.75	23.16	474.5	0.242
107.	23.58	34.84		23.66	428.1	75.	24.81	34.74	23.22	469.4	0.360
134.	22.60	35.07		24.12	385.5	100.	23.92	34.80	23.54	440.0	0.475
158.	21.67	35.11		24.41	358.4	150.	21.97	35.10	24.33	366.5	0.678
184.	21.02	35.18		24.64	337.2	200.	18.18	34.79	25.08	295.5	0.845
198.	18.38	34.81		25.05	298.4	250.	14.79	34.48	25.63	243.5	0.981
234.	16.16	34.61		25.43	263.0	300.	12.40	34.28	25.97	211.7	1.096
260.	13.97	34.40		25.75	232.6	400.	8.54	34.14	26.54	157.5	1.282
310.	12.16	34.27		26.01	208.2	500.	6.77	34.24	26.87	126.2	1.425
412.	8.12	34.14		26.60	151.6	600.	5.98	34.32	27.04	110.8	1.545
513.	6.67	34.26		26.90	123.5	700.	5.47	34.39	27.18	100.0	1.651
613.	5.91	34.33		27.06	109.4	800.	5.09	34.46	27.26	91.4	1.748
818.	5.03	34.47		27.27	90.1	1000.	4.37	34.53	27.39	79.4	1.921
1020.	4.30	34.53		27.40	78.5	1200.	3.80	34.55	27.47	72.5	2.075
1214.	3.76	34.55		27.47	72.1						
1460.	3.01	34.58		27.57	62.6						
CROMWELL 6, STATION 3, 17-30N LAT, 157-0W LCNG, JULY 15, 1964, 0400 G.C.T. DRY BULB 25.4 WET BULB 22.5 WIND SPEED 19, DIR. 07 BAR. 16 WEATHER 02 V15. 7 CLOUD TYPE 8, COVER 6											
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	25.80	34.78		22.95	492.1	0.	25.80	34.78	22.95	492.1	0.000
10.	25.76	34.77		22.96	492.0	10.	25.76	34.77	22.96	492.0	0.050
51.	25.51	34.70		22.98	491.3	20.	25.74	34.74	22.94	494.1	0.099
76.	24.95	34.81		23.23	468.0	30.	25.70	34.72	22.94	494.7	0.149
101.	22.82	35.00		24.01	395.3	50.	25.52	34.70	22.98	491.6	0.248
126.	22.01	35.00		24.23	374.3	75.	24.99	34.80	23.22	469.6	0.369
150.	20.74	35.01		24.59	341.0	100.	22.91	34.99	23.98	398.1	0.479
176.	18.77	34.88		25.01	302.0	150.	20.74	35.01	24.59	341.0	0.665
190.	17.79	34.76		25.16	287.8	200.	17.02	34.68	25.28	276.1	0.821
224.	15.12	34.50		25.58	248.1	250.	13.11	34.30	25.85	222.6	0.946
250.	13.11	34.30		25.85	222.6	300.	10.59	34.26	26.29	180.7	1.048
276.	11.39	34.22		26.12	196.9	400.	8.32	34.30	26.70	142.6	1.211
301.	10.57	34.26		26.30	180.1	500.	7.25	34.42	26.95	119.7	1.343
401.	8.30	34.30		26.70	142.4	600.	6.59	34.46	27.07	108.9	1.459
501.	7.24	34.42		26.95	119.5	700.	5.94	34.47	27.17	100.3	1.565
600.	6.59	34.46		27.07	108.9	800.	5.35	34.48	27.24	93.3	1.662
800.	5.35	34.48		27.24	93.3	1000.	4.50	34.52	27.37	81.6	1.839
1000.	4.50	34.52		27.37	81.6	1200.	3.90	34.57	27.48	72.2	1.995
1200.	3.90	34.57		27.48	72.2	1500.	3.09	34.57	27.56	64.5	2.203
1500.	3.09	34.57		27.56	64.5						

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL		6, STATION 4, 15-56N LAT, 156-59W LCNG, JULY 15, 1964, 1400 G.C.T.		WET BULB 22.7		WIND SPEED 20, DIR. 06		BAR. 16		WEATHER 02		VIS. 15.		CLOUD TYPE 6, COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPM.			
0.	25.69	34.64			22.88	498.9	0.	25.69	34.64	22.88	498.9	0.000			
9.	25.72	34.62			22.86	501.6	10.	25.72	34.62	22.86	501.6	0.050			
30. ^A	25.64	34.62			22.86	500.1	20.	25.69	34.62	22.86	501.4	0.101			
50. ^A	25.60	34.62			22.89	499.7	30.	25.64	34.62	22.88	500.1	0.151			
72.	25.22	34.62			23.01	489.4	50.	25.60	34.62	22.89	499.7	0.252			
94. ^A	23.53	34.68			23.56	437.7	75.	25.14	34.61	23.03	487.8	0.376			
100. ^A	22.40	34.78			23.96	399.7	100.	22.40	34.78	23.96	399.7	0.488			
118.	21.04	34.90			24.43	355.6	150.	18.76	34.89	25.02	299.7	0.664			
142.	19.37	34.94			24.90	311.2	200.	13.44	34.30	25.70	227.4	0.797			
165.	17.34	34.73			25.24	278.7	250.	11.28	34.23	26.14	193.8	0.903			
179.	15.51	34.48			25.48	250.6	300.	9.19	34.23	26.51	159.1	0.992			
211.	12.69	34.27			25.91	215.7	400.	7.76	34.37	26.83	129.3	1.138			
237.	11.90	34.24			26.04	203.8	500.	6.84	34.43	27.01	113.0	1.260			
261.	10.71	34.22			26.24	184.6	600.	5.98	34.43	27.12	103.0	1.369			
284.	9.65	34.22			26.42	167.3	700.	5.36	34.46	27.22	93.9	1.469			
378.	8.00	34.34			26.78	134.5	800.	4.90	34.49	27.31	86.6	1.560			
473.	7.10	34.43			26.98	116.3	1000.	4.22	34.54	27.42	76.6	1.725			
566.	6.22	34.42			27.09	106.3	1200.	3.61	34.57	27.51	68.6	1.872			
757.	5.08	34.48			27.28	89.3									
947.	4.39	34.53			27.39	79.0									
1137.	3.80	34.56			27.48	71.2									
1381.	3.14	34.59			27.57	62.9									
CROMWELL		6, STATION 5, 14-25N LAT, 156-59W LCNG, JULY 15, 1964, 2200 G.C.T.		WET BULB 25.9		WIND SPEED 19, DIR. 07		BAR. 17		WEATHER 02		VIS. 15.		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	CELT	DEPTH	TEMP.	SAL.	SIGMA-T	CELT	DYN. DPM.			
0.	25.71	34.68			22.90	496.6	0.	25.71	34.68	22.90	496.6	0.000			
10.	25.73	34.68			22.90	497.6	10.	25.73	34.68	22.90	497.6	0.050			
30. ^A	25.70	34.69			22.91	496.8	20.	25.72	34.68	22.90	497.5	0.100			
50. ^A	25.64	34.69			22.93	495.8	30.	25.70	34.69	22.91	496.8	0.150			
77.	24.22	34.82			23.46	446.4	50.	25.64	34.69	22.93	495.8	0.250			
101.	23.47	34.91			23.75	419.7	75.	24.34	34.81	23.42	450.6	0.369			
126.	22.12	35.08			24.26	371.4	100.	23.50	34.91	23.74	420.9	0.479			
152.	20.00	35.00			24.78	322.9	150.	20.18	35.01	24.74	326.3	0.668			
177.	17.96	34.78			25.13	289.9	200.	15.00	34.45	25.57	248.3	0.812			
191.	16.17	34.56			25.39	265.5	250.	10.35	34.20	26.29	179.7	0.920			
225.	12.15	34.26			26.01	206.6	300.	9.37	34.37	26.59	151.7	1.004			
251.	10.30	34.20			26.30	178.9	400.	8.39	34.52	26.86	127.5	1.145			
278.	9.73	34.30			26.47	162.6	500.	7.20	34.49	27.01	113.7	1.266			
302.	9.34	34.38			26.60	150.9	600.	6.53	34.50	27.11	105.1	1.377			
401.	8.38	34.52			26.86	127.4	700.	5.84	34.50	27.20	97.1	1.479			
501.	7.19	34.49			27.01	113.6	800.	5.21	34.50	27.28	89.9	1.574			
602.	6.52	34.50			27.11	105.0	1000.	4.38	34.54	27.40	78.7	1.744			
801.	5.20	34.50			27.28	89.9	1200.	3.76	34.57	27.49	70.5	1.895			
1001.	4.38	34.54			27.40	78.6									
1200.	3.76	34.57			27.49	70.5									
1482.	3.00	34.61			27.60	60.4									
CROMWELL		6, STATION 6, 13- 6N LAT, 157- 2W LCNG, JULY 16, 1964, 0600 G.C.T.		WET BULB 23.5		WIND SPEED 18, DIR. 07		BAR. 15		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	CELT	DEPTH	TEMP.	SAL.	SIGMA-T	CELT	DYN. DPM.			
1.	26.61	34.62			22.56	527.9	0.	26.61	34.62	22.58	527.8	0.000			
11. ^A	26.63	34.62			22.57	528.9	10.	26.63	34.62	22.57	528.9	0.053			
30. ^A	26.52	34.61			22.60	527.1	20.	26.59	34.62	22.58	528.4	0.106			
50. ^A	26.36	34.61			22.65	523.0	30.	26.52	34.61	22.60	527.1	0.160			
77.	23.78	34.60			23.42	449.8	50.	26.36	34.61	22.65	523.0	0.265			
102.	22.90	34.64			23.86	409.0	75.	23.99	34.60	23.36	455.9	0.389			
127.	20.27	34.77			24.53	345.5	100.	22.98	34.82	23.83	412.3	0.498			
153.	18.23	34.80			25.08	294.1	150.	18.49	34.86	25.02	299.9	0.678			
178.	14.67	34.42			25.62	243.2	200.	11.87	34.20	26.01	205.3	0.805			
193.	12.55	34.24			25.91	214.8	250.	9.73	34.28	26.45	163.6	0.896			
227.	10.30	34.19			26.29	179.1	300.	9.52	34.51	26.67	143.7	0.975			
254.	9.69	34.30			26.48	161.5	400.	8.61	34.59	26.88	125.7	1.111			
282.	9.51	34.42			26.60	150.3	500.	7.79	34.56	26.98	116.9	1.234			
305.	9.52	34.54			26.69	142.0	600.	6.78	34.52	27.10	106.7	1.347			
407.	8.52	34.58			26.89	125.2	700.	5.93	34.53	27.21	95.8	1.449			
511.	7.70	34.56			26.99	116.1	800.	5.26	34.56	27.31	86.6	1.541			
612.	6.65	34.52			27.11	105.4	1000.	4.31	34.52	27.40	79.0	1.709			
815.	5.18	34.58			27.33	85.3	1200.	3.74	34.57	27.50	70.0	1.860			
1018.	4.25	34.52			27.40	78.6									
1220.	3.69	34.58			27.51	69.1									
1498.	2.93	34.61			27.60	59.6									

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL		6, STATION	7, 11-31N LAT, 157- IN LONG, JULY 16, 1964, 1600 G.C.T.					WEATHER 03		VIS. 7	CLOUD TYPE 6, COVER 6				
DRY BULB	26.0	WET BULB	23.5	WIND SPEED	20, DIR.	04	BAR. 13				SIGMA-T	DELTA	OVM-DEPTH.		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OVM-DEPTH.				
0.	26.63	34.64			22.59	527.0	0.	26.63	34.64	22.59	527.0	0.000			
10.	26.61	34.64			22.59	526.8	10.	26.61	34.64	22.59	526.8	0.053			
20.	26.60	34.65			22.60	526.6	20.	26.61	34.64	22.60	526.8	0.106			
40.	26.57	34.66			22.64	524.2	30.	26.60	34.65	22.60	526.6	0.159			
75.	23.50	34.64			23.54	439.0	50.	26.41	34.66	22.67	521.1	0.265			
77.	23.37	34.64			23.57	435.5	75.	23.50	34.64	23.54	439.0	0.386			
101.	20.62	34.88			24.52	345.6	100.	20.76	34.87	24.48	349.9	0.485			
125.	17.26	34.70			25.24	277.0	150.	13.57	34.37	25.81	223.6	0.630			
151.	13.43	34.36			25.83	221.8	200.	10.63	34.52	26.49	159.7	0.726			
175.	11.21	34.33			26.24	193.3	250.	10.45	34.68	26.64	146.1	0.803			
190.	10.68	34.44			26.42	166.3	300.	9.80	34.67	26.75	136.8	0.875			
224.	10.73	34.67			26.59	151.0	400.	8.71	34.61	26.88	125.8	1.007			
251.	10.44	34.68			26.65	145.9	500.	7.71	34.56	26.99	116.0	1.129			
276.	10.02	34.68			26.72	139.4	600.	6.70	34.53	27.11	105.2	1.241			
302.	9.78	34.67			26.75	136.7	700.	5.94	34.53	27.21	96.2	1.342			
401.	8.70	34.61			26.88	125.7	800.	5.34	34.54	27.29	88.7	1.436			
502.	7.69	34.56			26.99	115.8	1000.	4.42	34.55	27.41	78.3	1.605			
602.	6.68	34.53			27.11	105.0	1200.	3.67	34.58	27.51	68.7	1.754			
802.	5.33	34.54			27.29	88.6	1500.	2.89	34.61	27.61	59.2	1.948			
1002.	4.41	34.55			27.41	78.3									
1200.	3.67	34.58			27.51	68.7									
1501.	2.89	34.61			27.61	59.2									
CROMWELL															
CROMWELL		6, STATION	7A, 10- 0H LAT, 153-58W LONG, JULY 17, 1964, 1100 G.C.T.					WEATHER 02		VIS.	CLOUD TYPE 6, COVER				
DRY BULB		26.0	WET BULB	23.9	WIND SPEED	11, DIR.	12	BAR. 13			SIGMA-T	DELTA	OVM-DEPTH.		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OVM-DEPTH.				
0.	26.68	33.74	5.10	0.22	21.89	593.3	C.	26.68	33.74	21.89	593.3	0.000			
9.	26.70	33.77	4.97	0.35	21.91	592.1	10.	26.70	33.77	21.91	592.2	0.060			
20.	26.70	33.76			21.90	593.2	20.	26.70	33.76	21.90	593.2	0.119			
30.	26.66	33.78			21.93	591.0	30.	26.66	33.78	21.93	591.0	0.179			
40.	20.38	34.47	4.67	0.67	24.28	366.9	50.	15.60	34.43	25.42	258.3	0.265			
50.	15.60	34.43			25.42	258.3	75.	12.07	34.39	26.13	191.6	0.321			
55.	14.66	34.42	2.64	1.48	25.62	239.5	100.	11.22	34.49	26.36	169.8	0.367			
65.	13.26	34.39	2.22	1.80	25.89	214.0	150.	10.77	34.67	26.58	150.0	0.447			
77.	11.89	34.40	1.71	2.12	26.16	188.0	200.	10.28	34.70	26.69	141.0	0.521			
89.	11.54	34.46	1.43	2.09	26.28	177.5	250.	9.62	34.66	26.77	133.4	0.590			
113.	10.90	34.52	1.01	2.52	26.44	162.5	300.	9.38	34.65	26.80	131.5	0.657			
160.	10.78	34.70	0.41	2.47	26.60	148.2	400.	8.63	34.64	26.92	122.2	0.765			
174.	10.63	34.70	0.41	2.46	26.63	146.0	500.	7.65	34.58	27.02	113.6	0.904			
230.	9.86	34.68 ^a	0.47		26.75	135.7	600.	6.74	34.55	27.12	104.5	1.014			
254.	9.58	34.66	0.41	2.63	26.76	133.1	700.	6.00	34.54	27.21	96.3	1.115			
276.	9.50	34.65	0.48	2.47	26.78	133.0	800.	5.39	34.54	27.29	89.0	1.209			
368.	8.92	34.66	0.70	2.62	26.88	124.8	1000.	4.46	34.57	27.42	77.5	1.377			
461.	8.03	34.60	0.44	2.97	26.98	117.2	1200.	3.74	34.59	27.51	68.9	1.526			
552.	7.15	34.56	0.51	2.93	27.07	108.7									
737.	5.76	34.54	0.86	2.98	27.24	93.5									
923.	4.77	34.56	0.92	3.02	27.37	81.3									
1108.	4.08	34.58	1.27	3.54	27.47	72.9									
1372.	3.27	34.60	1.73	2.48	27.56	63.6									
CROMWELL															
CROMWELL		6, STATION	8, 11-33N LAT, 154- 0W LONG, JULY 17, 1964, 2000 G.C.T.					WEATHER 03		VIS. 8	CLOUD TYPE 8, COVER 5				
DRY BULB		26.9	WET BULB	23.9	WIND SPEED	16, DIR.	07	BAR. 13			SIGMA-T	DELTA	OVM-DEPTH.		
DEPTH ^a	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OVM-DEPTH.				
0.	27.00	34.13			22.08	574.9	0.	27.00	34.13	22.08	574.9	0.000			
10.	27.00	34.13	5.04	0.30	22.08	575.3	10.	27.00	34.13	22.08	575.3	0.058			
30.	27.00	34.13			22.08	576.1	20.	27.07	34.10	22.04	580.0	0.116			
50.	25.80	34.58	5.13	0.24	22.88	508.5	30.	27.00	34.13	22.08	576.1	0.174			
60.	24.62	34.66	5.23	0.34	23.22	468.7	50.	25.80	34.58	22.80	508.5	0.284			
77.	22.30	34.94	5.36	0.19	24.11	384.5	75.	22.59	34.91	24.00	394.4	0.397			
103.	18.38	34.78	4.59	0.49	25.03	297.4	100.	18.86	34.82	24.94	305.7	0.486			
127.	14.31	34.42	3.15		25.69	234.4	150.	12.40	34.59	26.21	185.0	0.609			
153.	12.26	34.63	0.93	2.22	26.27	179.7	200.	10.78	34.74	26.63	146.4	0.693			
176.	11.62	34.74	0.38	2.48	26.48	160.6	250.	10.26	34.71	26.70	140.4	0.765			
183.	11.29	34.74	0.48	2.22	26.54	154.8	300.	9.60	34.67	26.78	133.9	0.834			
227.	10.60	34.73	1.22	2.24	26.66	144.5	400.	8.88	34.63	26.87	126.9	0.966			
254.	10.20	34.71	0.99	2.36	26.71	139.7	500.	7.69	34.55	26.99	116.6	1.089			
281.	9.80	34.69	0.86	2.49	26.76	135.1	600.	6.69	34.52	27.10	105.8	1.201			
307.	9.54	34.66	0.68	2.54	26.78	133.6	700.	5.95	34.52	27.20	97.4	1.304			
408.	8.82	34.63	0.59	2.65	26.88	126.2	800.	5.38	34.52	27.27	90.8	1.399			
510.	7.56	34.54	0.61	2.55	27.00	115.5	1000.	4.55	34.54	27.38	80.9	1.572			
612.	6.59	34.52	0.69	2.71	27.12	104.6	1200.	3.86	34.56	27.47	72.6	1.728			
814.	5.31	34.52	0.83	2.71	27.26	90.0									
1018.	4.49	34.54	1.18	2.93	27.39	80.2									
1207.	3.84	34.56	1.32	2.94	27.47	72.3									
1441.	3.19	34.58	1.72		27.55	64.6									

TEMPERATURE ERRDR TERM AT 200. METERS 15 0.16

Table 3. --Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROWELL CRY BULB	6. STATION WEI BULB	9, 13- 26.1	4N LAT, 154- 23.4	4W LENG, WIND SPEED 18,	JLLY 18, 1964, DIR. 07	0600 G.E.T.	BAR. 13	WEATHER 02	VIS. 8	CLOUD TYPE 8,	COVER 2	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OXY-DOPTH.
1.	26.43	34.69	6.03	0.25	22.69	517.4	0.	26.43	34.69	22.69	517.4	0.000
11.	26.44	34.68	5.09	0.20	22.66	518.8	10.	26.44	34.68	22.68	518.7	0.052
50. ^Δ	26.36	34.72			22.73	515.1	20.	26.44	34.68	22.68	518.6	0.104
75.	26.22	34.75	5.14	0.28	22.80	509.8	30.	26.42	34.69	22.69	518.3	0.157
99.	22.70	34.83	5.47	0.23	23.91	404.2	50.	26.36	34.72	22.73	515.1	0.261
123.	20.72	35.04	5.25	0.26	24.62	337.4	75.	26.22	34.75	22.80	509.8	0.390
148.	18.56	34.85	4.83	0.47	25.04	298.2	100.	22.60	34.84	23.95	400.7	0.505
171.	15.40	34.50	3.56	1.26	25.52	252.5	150.	18.29	34.82	25.08	293.8	0.680
187.	13.81	34.32	3.51	1.20	25.72	233.2	200.	12.91	34.38	25.95	211.4	0.807
221.	11.87	34.58	0.87	1.97	26.31	177.9	250.	10.77	34.60	26.53	157.4	0.900
247.	10.84	34.60* ^Δ	0.89	2.12	26.51	158.6	300.	10.03	34.60	26.66	145.8	0.976
272.	10.39	34.60	0.56	2.01	26.59	151.4	400.	9.05	34.62	26.83	130.7	1.116
296.	10.07	34.60	0.45	2.34	26.65	146.5	500.	8.00	34.56	26.95	120.5	1.243
393.	9.12	34.62	0.41	2.41	26.82	131.5	600.	7.02	34.54	27.07	109.1	1.359
492.	8.08	34.56	0.41	2.08	26.94	121.5	700.	6.22	34.54	27.18	99.4	1.464
590.	7.11	34.54	0.43	2.05	27.06	110.2	800.	5.56	34.54	27.27	91.6	1.560
786.	5.64	34.54	0.70	2.97	27.26	92.5	1000.	4.59	34.54	27.38	81.0	1.735
982.	4.66	34.54	0.95	2.89	27.37	82.0	1200.	3.90	34.57	27.48	72.4	1.890
1182.	3.99	34.58	1.24	2.38	27.48	72.5						
1480.	3.32**	34.60	1.83	2.57	27.56	65.0						

CROMWELL 6, STATION 10, 14-27N LAT, 153-54W LNG, JULY 18, 1964, 1400 G.E.T.													
DRY BULB 25.5		WET BULB 22.6		WIND SPEED 14, CIR. 06		BAR. 13		WEATHER 02		VIS. 7		CLOUD TYPE, COVER	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	25.93	34.80	5.11	0.29	22.93	494.5	0.	25.93	34.80	22.93	494.5	0.000	
9.	25.96	34.81	5.11	0.24	22.92	495.0	10.	25.96	34.81	22.92	495.1	0.050	
30.	25.92	34.81			22.94	494.7	20.	25.95	34.81	22.93	495.0	0.100	
50.	25.88	34.81			22.95	494.3	30.	25.92	34.81	22.94	494.7	0.150	
74.	23.25	34.76	5.47	0.23	23.70	423.4	50.	25.88	34.81	22.95	494.3	0.249	
98.	22.45	34.97	5.41	0.21	24.05	387.2	75.	23.21	34.77	23.72	421.6	C.365	
122.	20.63	34.93	5.03	0.38	24.56	343.0	100.	22.31	34.97	24.13	383.5	0.466	
147.	19.15	34.92	4.67	0.44	24.94	307.4	150.	18.93	34.90	24.98	303.9	0.639	
172.	17.11	34.66	4.30	0.63	25.25	278.6	200.	14.15	34.36	25.68	237.2	0.776	
187.	15.71	34.50	4.31	0.76	25.45	259.7	250.	10.89	34.28	26.25	183.3	0.882	
220.	12.02	34.22	3.47	1.49	26.00	207.0	300.	10.17	34.56	26.60	151.0	0.966	
246.	10.94	34.23	1.53	1.95	26.21	187.5	400.	8.90	34.56	26.81	132.8	1.109	
271.	10.72	34.52	0.77		26.47	163.0	500.	7.63	34.50	26.96	119.3	1.236	
295.	10.25	34.56	0.55	2.48	26.59	152.5	600.	6.62	34.50	27.10	106.3	1.350	
394.	8.98	34.56	0.35	2.62	26.8E	133.7	700.	5.89	34.50	27.20	97.5	1.453	
493.	7.71	34.50	0.51	2.72	26.94	120.3	800.	5.33	34.51	27.27	90.7	1.548	
591.	6.69	34.50	0.46	2.57	27.09	107.2	1000.	4.38	34.54	27.40	78.6	1.720	
788.	5.40	34.51	0.71	2.69	27.26	91.6	1200.	3.73	34.55	27.48	71.6	1.872	
986.	4.43	34.54	0.92		27.40	79.1							
1183.	3.86	34.54	1.26	2.71	27.46	73.8							
1482.	3.06	34.57	1.64	2.86	27.56	64.0							

TEMPERATURE ERROR TERM AT 20C. METERS IS 0.14

CROMWELL 6. STATION 11, 16- ON LAT. 154- 1W LENO. JULY 18, 1964, 2300 G.C.T.												
DRY BULB	25.9	WET BULB	23.0	WIND SPEED	15	CIR.	06	BAR.	16	WEATHER	01	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	CETIA	DEPTH	TEMP.	SAL.	SIGMA-T	CETIA	OXY-CPHT.
0.	25.44	34.68	5.05	C.27	22.99	488.7	0.	25.44	34.68	22.99	488.7	0.000
9.	25.29	34.68	5.12	O.26	23.03	484.7	10.	25.30	34.68	23.03	485.2	0.049
30.	25.14	34.72			23.11	478.2	20.	25.31	34.68	23.03	485.7	0.098
49.	23.40	35.00	5.52	O.20	23.84	409.3	30.	25.14	34.72	23.11	478.2	0.146
75.	22.72	35.05	5.51	O.26	24.07	387.9	50.	23.36	35.01	23.85	407.7	0.236
99.	21.95	35.10	5.37	O.24	24.33	364.4	75.	22.72	35.05	24.07	387.9	0.336
125.	20.19	34.96	4.85		24.70	329.7	100.	21.89	35.10	24.34	363.2	0.431
150.	18.45	34.81	4.79	0.54	25.03	298.5	150.	18.45	34.81	25.03	298.5	0.597
175.	15.95	34.48	3.96	O.98	25.38	266.0	200.	13.34	34.25	25.77	229.0	0.730
188.	14.54	34.38	4.29		25.61	243.7	250.	10.49	34.45	26.46	163.7	0.829
223.	11.53	34.14	3.97	1.27	26.03	204.1	300.	9.76	34.44	26.58	153.2	0.909
250.	10.49	34.45*	2.23		26.46	163.7	400.	8.62	34.50	26.81	132.5	1.053
276.	10.43	34.46	0.98	2.06	26.48	162.5	500.	7.70	34.50	26.95	120.3	1.181
300.	9.76	34.44	0.89	2.35	26.58	153.2	600.	6.83	34.48	27.05	110.7	1.298
400.	8.62	34.50	0.37	2.68	26.81	132.5	700.	6.16	34.48	27.15	102.5	1.405
500.	7.70	34.50	0.37		26.95	120.3	800.	5.61	34.50	27.23	95.3	1.505
601.	6.82	34.48	0.50		27.06	110.6	1000.	4.60	34.52	27.36	82.9	1.686
802.	5.60	34.50	0.64	2.78	27.23	95.1	1200.	3.99	34.56	27.46	74.2	1.845
1001.	4.60	34.52	0.93	2.69	27.36	82.9						
1202.	3.99	34.56	1.19	2.65	27.46	74.1						
1486.	3.37	34.57	1.49	2.85	27.53	67.9						

ΔFROM BT DATA

*INTERPOLATED DATA

**EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL		6, STATION 12, 17-30N LAT, 153-59W LONG, JULY 19, 1964, 0900 G.C.T.		DRY BULB 25.0 WET BULB 22.9		WIND SPEED 16, DIR. 07		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTIM.			
0.	25.19	34.69	5.22	0.22	23.07	480.7	0.	25.19	34.69	23.07	480.7	0.000			
10.	25.19	34.68	5.23	0.26	23.06	481.8	10.	25.19	34.68	23.06	481.8	0.048			
30.	25.20	34.68			23.06	482.9	20.	25.20	34.68	23.06	482.6	0.097			
51.	25.10	34.68	5.23	0.22	23.09	480.8	30.	25.20	34.68	23.06	482.9	0.146			
76.	23.92	34.69	5.47	0.30	23.45	447.2	50.	25.12	34.68	23.09	481.2	0.243			
100.	23.10	34.89	5.48	0.23	23.84	410.9	75.	23.98	34.69	23.43	448.9	0.360			
124.	22.26	35.04	5.50	0.19	24.20	378.0	100.	23.10	34.89	23.84	410.9	0.468			
149.	21.63	35.15	5.42	0.23	24.45	354.2	150.	21.61	35.15	24.46	353.3	0.661			
173.	20.72	35.12	5.20	0.84	24.68	333.4	200.	17.80	34.74	25.14	289.6	0.823			
187.	19.30	34.92	4.91	0.40	24.90	312.5	250.	12.91	34.29	25.88	219.2	0.951			
222.	15.33	34.49	4.24	0.81	25.53	253.3	300.	10.36	34.31	26.37	173.1	1.050			
247.	13.15	34.31	4.18	0.91	25.85	222.5	400.	8.46	34.37	26.73	139.3	1.208			
272.	11.41	34.22	3.80	1.24	26.11	197.2	500.	7.32	34.42	26.94	120.5	1.339			
296.	10.48	34.30	2.54	1.76	26.34	175.5	600.	6.57	34.44	27.06	109.9	1.455			
393.	8.56	34.37	1.28	2.42	26.71	141.0	700.	5.89	34.46	27.16	100.9	1.562			
492.	7.39	34.42	0.72	2.74	26.93	121.5	800.	5.33	34.47	27.24	93.5	1.660			
590.	6.64	34.44	0.63	2.73	27.05	110.9	1000.	4.50	34.51	27.37	82.1	1.838			
785.	5.40	34.47	0.79	2.69	27.23	94.5	1200.	3.79	34.55	27.47	72.6	1.994			
981.	4.58	34.51	1.08	2.97	27.36	83.1									
1167.	3.87	34.54	1.20	2.79	27.46	73.8									
1411.	3.23	34.58	1.62	2.91	27.55	64.9									

CROMWELL				6, STATION 13, 18-59N LAT, 153-59W LONG, JULY 19, 1964, 1800 G.C.T.				DRY BULB 24.0				WET BULB 22.5				WIND SPEED 19, DIR. 07		BAR. 18		WEATHER 91		VIS. 3		CLOUD TYPE 7, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTIM.													
0.	25.04	34.88	4.75	0.18	23.26	462.6	0.	25.04	34.88	23.26	462.6	0.000													
9.	25.04	34.88	5.03	0.18	23.26	463.0	10.	25.04	34.88	23.26	463.1	0.047													
30.	25.00	34.88			23.27	462.6	20.	25.03	34.88	23.26	463.4	0.093													
49.	24.81	34.92	5.10	0.21	23.36	455.0	30.	25.00	34.88	23.27	462.6	0.140													
74.	23.63	35.00	5.33	0.36	23.77	416.7	50.	24.77	34.92	23.37	453.7	0.232													
98.	22.67	34.99	5.31	0.27	24.03	392.5	75.	23.58	35.00	23.78	415.5	0.342													
123.	22.26	35.09	5.22	0.20	24.23	374.4	100.	22.63	34.99	24.05	391.0	0.443													
147.	21.49	35.14	5.05	0.22	24.49	351.1	150.	21.38	35.14	24.52	348.0	0.629													
173.	20.43	35.13	4.93	0.23	24.77	325.2	200.	18.92	34.95	25.02	301.2	0.793													
197.	19.74	35.06	4.73	0.30	24.89	313.3	250.	15.55	34.59	25.55	252.0	0.933													
220.	17.55	34.78	4.63	0.42	25.23	281.7	300.	12.12	34.24	25.99	209.7	1.049													
248.	15.70	34.60	4.73	0.50	25.53	254.0	400.	8.05	34.08	26.57	154.5	1.233													
272.	13.94	34.42	4.75	0.63	25.77	230.9	500.	6.92	34.24	26.86	127.9	1.375													
297.	12.30	34.25	4.94	0.84	25.97	211.9	600.	6.04	34.32	27.03	111.5	1.496													
396.	8.13	34.08	3.70	1.91	26.55	155.9	700.	5.35	34.40	27.18	98.1	1.602													
496.	6.96	34.24	1.35	2.39	26.85	128.7	800.	4.82	34.46	27.29	87.9	1.696													
596.	6.07	34.32	0.72	2.81	27.03	112.1	1000.	4.07	34.52	27.42	76.3	1.862													
796.	4.94	34.46	0.85	2.77	27.29	88.2	1200.	3.49	34.56	27.51	67.8	2.008													
998.	4.08	34.52	1.03	2.92	27.42	76.4	1500.	2.78	34.60	27.61	58.6	2.200													
1197.	3.54	34.56	1.26	2.78	27.50	68.5																			
1500.	2.78	34.60	1.58	2.58	27.61	58.6																			

CROMWELL				6, STATION 14, 20-28N LAT, 154-2W LONG, JULY 20, 1964, 0300 G.C.T.				DRY BULB 24.9				WET BULB 21.9				WIND SPEED 18, DIR. 06		BAR. 17		WEATHER 01		VIS. 8		CLOUD TYPE 6, COVER 1	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTIM.													
0.	24.92	34.97	5.11	0.26	23.36	452.7	0.	24.92	34.97	23.36	452.7	0.000													
11.	24.65	34.97	5.19	0.20	23.39	451.1	10.	24.86	34.97	23.38	451.2	0.046													
30.	24.62	34.96			23.45	449.5	20.	24.75	34.97	23.41	448.7	0.091													
51.	24.39	34.94	5.33	0.19	23.50	441.6	30.	24.62	34.96	23.45	449.9	0.136													
76.	23.23	35.02	5.40	0.15	23.90	404.2	50.	24.41	34.94	23.50	442.1	0.225													
101.	22.78	35.10	5.33	0.15	24.09	387.0	75.	23.28	35.02	23.89	405.8	0.332													
125.	22.44	35.16	5.09	0.35	24.24	374.3	100.	22.79	35.10	24.09	387.4	0.432													
151.	21.43	35.18	5.10	0.24	24.53	346.8	150.	21.48	35.18	24.52	348.0	0.617													
176.	20.03	35.06	4.78	0.55	24.82	320.2	200.	18.67	34.93	25.07	297.0	0.780													
191.	19.34	35.00	4.73		24.95	307.8	250.	15.59	34.98	25.54	252.8	0.919													
223.	16.88	34.72	4.77	0.48	25.35	270.8	300.	12.45	34.29	25.97	211.7	1.036													
251.	15.54	34.58	4.87	0.56	25.55	252.1	400.	8.61	34.08	26.48	163.2	1.225													
276.	13.62	34.40	4.86	0.82	25.82	226.0	500.	6.69	34.10	26.77	135.5	1.376													
301.	12.41	34.29	5.11	0.83	25.98	211.2	600.	5.54	34.20	27.00	114.1	1.502													
402.	8.55	34.08	4.16	1.62	26.49	162.4	700.	5.01	34.33	27.16	99.0	1.609													
501.	6.68	34.10	2.22	2.22	26.77	135.3	800.	4.75	34.44	27.28	88.5	1.704													
600.	5.54	34.20	1.16	2.09	27.00	114.1	1000.	4.12	34.50	27.40	78.4	1.873													
799.	4.75	34.44	0.95	2.55	27.28	88.6	1200.	3.58	34.54	27.49	70.2	2.023													
998.	4.13	34.50	1.08	2.36	27.40	78.4																			
1198.	3.58	34.54	1.29	2.67	27.48	70.5																			
1499.	2.91	34.59	1.71	2.70	27.59	60.9																			

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA								
CROMWELL 6, STATION 25, 21-59N LAT, 153-59W LENGTH, JULY 20, 1964, 1300 G.C.T.				DRY BULB 24.5 WET BULB 20.5 WIND SPEED 25, DIR. 07 BAR. 19 WEATHER 02				VIS. 6				CLOUD TYPE 6, COVER 7				
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DEPTH	TEMP.	DEPTH	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	DYN-OPTH.
0.	24.85	34.97	5.16	0.32	23.39	450.6	0.	24.85	34.97	23.39	450.6	0.	0.000			
10.	24.84	34.98	5.20	0.20	23.40	450.0	10.	24.84	34.98	23.40	450.0	0.	0.045			
30. ^A	24.84	34.98			23.40	450.8	20.	24.84	34.98	23.40	450.5	0.	0.091			
51.	24.76	35.00	5.19	0.13	23.43	447.9	30.	24.84	34.98	23.40	450.8	0.	0.136			
76.	23.76	35.08	5.39		23.79	414.6	50.	24.77	35.00	23.43	448.3	0.	0.227			
99.	22.90	35.16	5.42		24.1C	385.8	75.	23.81	35.08	23.78	416.2	0.	0.336			
124.	22.18	35.16	5.22	0.26	24.31	367.2	100.	22.87	35.16	24.11	385.0	0.	0.436			
149.	20.95	35.03	4.91	0.34	24.55	345.0	150.	20.90	35.03	24.56	343.8	0.	0.620			
173.	19.83	35.02	4.77	0.31	24.84	318.0	200.	18.66	34.92	25.07	297.2	0.	0.782			
187.	19.26	34.98	4.73	0.30	24.96	307.1	250.	15.52	34.55	25.53	253.9	0.	0.921			
219.	17.62	34.80	4.77	0.59	25.23	281.9	300.	12.65	34.28	25.92	216.5	0.	1.039			
246.	15.75	34.57	4.47	0.67	25.49	257.2	400.	9.28	34.13	26.41	170.3	0.	1.234			
270.	14.40	34.45	4.58	0.72	25.70	238.0	500.	6.90	34.08	26.73	139.8	0.	1.391			
294.	12.93	34.30	4.83	1.C3	25.88	220.2	600.	5.56	34.14	26.95	119.0	0.	1.522			
390.	9.58	34.14	4.04	1.84	26.37	174.2	700.	4.84	34.25	27.12	102.4	0.	1.633			
468.	7.12	34.08	2.64	1.91	26.70	142.7	800.	4.47	34.38	27.26	89.9	0.	1.731			
505.	5.70	34.12	1.48	2.55	26.92	121.9	1000.	3.95	34.48	27.40	77.5	0.	1.900			
782.	4.53	34.36	0.90	2.41	27.24	91.6	1200.	3.45	34.53	27.49	69.6	0.	2.049			
977.	4.02	34.48	1.15	2.92	27.39	78.4										
1174.	3.48	34.50	1.41	2.09	27.46	72.1										
1435.	2.96	34.57	1.68		27.57	62.5										
CROMWELL 6, STATION 16, 23-32N LAT, 153-55W LENGTH, JULY 20, 1964, 2200 G.C.T.				DRY BULB 24.5 WET BULB 21.3 WIND SPEED 24, CIR. 06 BAR. 21 WEATHER 01				VIS. 7				CLOUD TYPE 6, COVER 5				
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DEPTH	TEMP.	DEPTH	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	DYN-OPTH.
0.	24.80	34.87	5.24	0.23	23.32	456.4	0.	24.80	34.87	23.32	456.4	0.	0.000			
10. ^A	24.82	34.88	5.23		23.33	456.6	10.	24.82	34.88	23.33	456.6	0.	0.046			
30. ^A	24.82	34.88			23.33	457.4	20.	24.82	34.88	23.33	457.0	0.	0.092			
50. ^A	24.82	34.88			23.33	458.2	30.	24.82	34.88	23.33	457.4	0.	0.138			
76.	24.11	35.12	5.46	0.18	23.72	421.6	50.	24.82	34.88	23.33	458.2	0.	0.230			
101.	22.99	35.16	5.43	0.67	24.08	388.4	75.	24.15	35.11	23.70	423.4	0.	0.341			
125.	21.94	35.17	5.40	0.18	24.30	360.1	100.	23.04	35.16	24.06	389.7	0.	0.444			
151.	20.76	35.08	4.93	0.61	24.64	336.5	150.	20.80	35.08	24.63	337.4	0.	0.627			
177.	19.80	35.08	5.03	0.31	24.89	313.0	200.	18.48	34.91	25.10	294.0	0.	0.786			
192.	18.93	34.96	4.88	0.35	25.03	300.7	250.	15.15	34.54	25.60	246.8	0.	0.922			
225.	16.98	34.74	4.92	0.47	25.34	271.7	300.	12.21	34.24	25.98	210.9	0.	1.038			
252.	15.00	34.52	4.94	0.60	25.62	244.9	400.	9.18	34.07	26.38	173.2	0.	1.232			
278.	13.45	34.37	4.98	0.67	25.83	224.9	500.	6.67	34.03	26.72	140.4	0.	1.390			
302.	12.10	34.23	5.11	0.50	25.99	209.6	600.	5.37	34.09	26.94	119.7	0.	1.521			
403.	9.13	34.07	4.73	1.47	26.39	172.3	700.	4.73	34.23	27.12	102.7	0.	1.634			
504.	6.59	34.03	2.81	2.06	26.73	139.3	800.	4.39	34.37	27.27	89.4	0.	1.731			
605.	5.33	34.10	1.40	2.58	26.95	118.9	1000.	3.88	34.48	27.41	77.1	0.	1.899			
807.	4.38	34.38	1.10	2.75	27.28	88.6	1200.	3.41	34.54	27.50	68.5	0.	2.047			
1007.	3.87	34.48	1.26	2.89	27.41	76.9										
1209.	3.40	34.54	1.40	2.54	27.50	68.4										
CROMWELL 6, STATION 17, 23-27N LAT, 150-59W LENGTH, JULY 21, 1964, 1700 G.C.T.				DRY BULB 23.6 WET BULB 20.6 WIND SPEED 16, CIR. 05 BAR. 19 WEATHER 03				VIS. 7				CLOUD TYPE 6, COVER 2				
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DEPTH	TEMP.	DEPTH	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	DYN-OPTH.
0.	24.46	34.92			23.46	443.0	0.	24.46	34.92	23.46	443.0	0.	0.000			
9.	24.47	34.93			23.47	442.9	10.	24.47	34.93	23.47	443.0	0.	0.045			
30. ^A	24.46	34.93			23.47	443.5	20.	24.47	34.93	23.47	443.3	0.	0.089			
50. ^A	24.40	34.94			23.5C	441.8	30.	24.46	34.93	23.47	443.5	0.	0.134			
74.	22.78	35.29			24.24	372.2	50.	24.40	34.94	23.50	441.8	0.	0.223			
96.	22.01	35.27			24.44	353.7	75.	22.74	35.29	24.25	371.0	0.	0.325			
122.	21.25	35.26			24.64	335.2	100.	21.96	35.27	24.46	352.2	0.	0.417			
147.	19.87	35.05			24.85	315.9	150.	19.63	35.03	24.90	311.7	0.	0.584			
170.	18.03	34.87			25.18	284.8	200.	16.28	34.65	25.44	261.3	0.	0.720			
185.	17.18	34.76			25.31	273.5	250.	13.21	34.28	25.81	225.9	0.	0.851			
216.	15.13	34.52			25.59	246.7	300.	11.82	34.22	26.04	205.2	0.	0.960			
244.	13.37	34.30			25.8C	227.5	400.	9.05	34.08	26.41	170.2	0.	1.149			
270.	12.82	34.25			25.87	221.1	500.	6.88	34.05	26.70	142.1	0.	1.307			
293.	12.04	34.23			26.00	208.4	600.	5.53	34.14	26.96	110.1	0.	1.438			
391.	9.28	34.09			26.38	173.0	700.	4.85	34.26	27.13	102.2	0.	1.550			
490.	7.06	34.04			26.68	144.8	800.	4.50	34.36	27.25	91.1	0.	1.647			
588.	5.64	34.13			26.93	120.4	1000.	3.91	34.49	27.41	76.7	0.	1.817			
704.	4.56	34.35			27.23	92.7	1200.	3.41	34.54	27.5C	68.5	0.	1.964			
977.	3.97	34.48			27.40	77.8										
1170.	3.48	34.52			27.48	70.6										
1399.	2.99	34.56			27.56	63.4										

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL		6, STATION 18, 21-58N LAT, 151-0W LCNG, JULY 22, 1964, 0200 G.C.T.		WEATHER 01		VIS. 7		CLOUD TYPE 6, COVER 5				
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELT	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTN.
0.	24.74	34.84			23.32	456.8	0.	24.74	34.84	23.32	456.8	0.000
10.	24.69	34.84			23.34	455.8	10.	24.69	34.84	23.34	455.8	0.046
50.	23.92	35.02			23.7C	422.4	20.	24.58	34.87	23.39	450.5	0.092
75.	23.05	35.11			24.02	392.7	30.	24.41	34.91	23.48	443.1	0.137
100.	22.58	35.20			24.23	374.3	50.	23.92	35.02	23.70	422.4	0.224
125.	21.92	35.22			24.43	355.9	75.	23.05	35.11	24.02	392.7	0.326
150.	20.86	35.18			24.69	331.9	100.	22.58	35.20	24.23	374.3	0.423
176.	19.79	35.07			24.85	313.4	150.	20.90	35.18	24.68	332.8	0.601
190.	19.35	35.02			24.97	306.6	200.	18.91	34.96	25.04	300.2	0.761
223.	17.60	34.79			25.23	282.3	250.	15.71	34.55	25.49	257.9	0.901
250.	15.71	34.55			25.49	257.9	300.	12.33	34.24	25.95	213.5	1.020
275.	14.14	34.40			25.71	236.5	400.	8.85	34.07	26.43	167.9	1.213
299.	12.38	34.24			25.95	214.2	500.	6.74	34.04	26.72	140.4	1.368
398.	8.90	34.07			26.43	168.5	600.	5.55	34.16	26.97	116.8	1.498
498.	6.77	34.04			26.72	140.9	700.	5.02	34.29	27.14	101.6	1.609
597.	5.57	34.16			26.96	117.4	800.	4.76	34.40	27.25	91.4	1.706
795.	4.78	34.40			27.25	91.9	1000.	4.09	34.49	27.40	78.5	1.878
993.	4.11	34.49			27.35	78.9	1200.	3.53	34.55	27.50	69.4	2.028
1191.	3.56	34.54			27.49	70.2						
1490.	2.86	34.58			27.58	60.9						

CROMWELL 6, STATION 19, 20-27N LAT, 150-59W LCNG, JULY 22, 1964, 1000 G.C.T.				WEATHER 01				VIS. 5				CLOUD TYPE 8, COVER 5	
DRY BULB 24.0		WET BULB 22.5		WIND SPEED 07, DIR. 07		BAR. 17		WEATHER 01		VIS. 5		CLOUD TYPE 8, COVER 5	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	CELT	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTN.	
0.	24.39	34.94			23.5C	439.6	0.	24.39	34.94	23.50	439.6	0.000	
9.	24.40	34.94			23.50	440.2	10.	24.40	34.94	23.50	440.1	0.044	
30.	24.26	34.96			23.55	435.6	20.	24.35	34.95	23.52	438.6	0.089	
50.	24.00	34.98			23.65	427.6	30.	24.26	34.96	23.55	435.6	0.133	
74.	22.90	35.11			24.07	388.5	50.	24.00	34.98	23.65	427.6	0.220	
98.	22.16	35.21			24.35	362.1	75.	22.86	35.12	24.08	387.2	0.322	
123.	21.54	35.22			24.53	345.8	100.	22.10	35.21	24.37	360.5	0.416	
148.	21.16	35.28			24.66	332.4	150.	21.12	35.28	24.70	331.1	0.591	
172.	20.42	35.25			24.86	316.3	200.	18.69	34.96	25.09	294.8	0.748	
186.	19.64	35.12			24.97	306.4	250.	14.71	34.46	25.64	243.3	0.884	
220.	17.18	34.74			25.29	276.1	300.	11.06	34.13	26.11	197.9	0.995	
246.	15.15	34.51			25.56	248.7	400.	8.07	34.18	26.64	147.5	1.170	
271.	12.56	34.22			25.90	218.4	500.	6.70	34.25	26.89	124.1	1.307	
295.	11.28	34.14			26.08	201.2	600.	6.06	34.34	27.05	110.1	1.425	
395.	8.17	34.18			26.63	149.1	700.	5.49	34.40	27.16	100.0	1.531	
495.	6.74	34.25			26.88	124.9	800.	5.01	34.43	27.25	92.2	1.628	
593.	6.10	34.34			27.04	110.9	1000.	4.26	34.50	27.39	79.8	1.802	
790.	5.05	34.43			27.24	93.0	1200.	3.63	34.55	27.48	70.7	1.955	
988.	4.30	34.50			27.38	80.4							
1187.	3.65	34.54			27.48	71.3							
1486.	3.03	34.58			27.57	63.0							

CROMWELL 6, STATION 20, 18-58N LAT, 150-59W LCNG, JULY 22, 1964, 1900 G.C.T.				WEATHER 01				VIS. 7				CLOUD TYPE 8, COVER 4	
DRY BULB 24.8		WET BULB 23.2		WIND SPEED 07, DIR. 01		BAR. 15		WEATHER 15		VIS. 7		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	CELT	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTH.	
0.	25.08	34.72			23.13	475.3	0.	25.08	34.72	23.13	475.3	0.000	
10.	25.01	34.72			23.15	473.7	10.	25.01	34.72	23.15	473.7	0.048	
30.	24.95	34.72			23.17	472.7	20.	24.98	34.72	23.16	473.1	0.095	
50.	24.84	34.72			23.2C	470.3	30.	24.95	34.72	23.17	472.7	0.143	
77.	22.72	34.71			23.81	412.5	50.	24.84	34.72	23.20	470.3	0.238	
100.	21.95	34.96			24.22	374.6	75.	22.89	34.71	23.76	417.5	0.350	
125.	21.08	35.16			24.61	338.1	100.	21.95	34.96	24.22	374.6	0.450	
152.	19.60	35.02			24.90	311.5	150.	19.73	35.04	24.88	313.2	0.623	
177.	17.91	34.79			25.15	288.0	200.	15.77	34.51	25.44	261.0	0.768	
191.	16.55	34.60			25.33	271.0	250.	11.43	34.13	26.04	203.7	0.885	
225.	13.68	34.30			25.73	233.1	300.	9.42	34.10	26.37	172.5	0.980	
252.	11.27	34.12			26.06	201.6	400.	7.15	34.10	26.71	140.4	1.138	
277.	10.19	34.13			26.26	182.7	500.	6.09	34.20	26.93	120.3	1.269	
302.	9.36	34.10			26.38	171.8	600.	5.36	34.30	27.10	104.7	1.383	
403.	7.10	34.10			26.72	139.7	700.	4.89	34.39	27.23	92.8	1.483	
504.	6.06	34.20			26.93	119.6	800.	4.54	34.47	27.33	84.1	1.572	
604.	5.34	34.30			27.10	104.2	1000.	3.96	34.51	27.42	75.6	1.733	
805.	4.53	34.47			27.33	83.7	1200.	3.44	34.56	27.51	67.5	1.878	
1006.	3.94	34.51			27.42	75.5	1500.	2.85	34.61	27.61	58.7	2.071	
1206.	3.43	34.56			27.52	67.3							
1509.	2.83	34.61			27.61	58.5							

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 6, STATION 21, 17-26N LAT, 151- IW LONG, JULY 23, 1964, 0500 G.C.T. DRY BULB 25.7 WET BULB 23.1 WIND SPEED 07, DIR. 05 BAR. 14 WEATHER 01 VIS. 8 CLOUD TYPE 7, COVER												
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	CELT	DEPTH	TEMP.	SAL.	SIGMA-T	CELT	DYN. OPTH.
0.	25.88	34.76			22.91	495.9	0.	25.88	34.76	22.91	495.9	0.000
10.	25.44	34.78			23.06	481.9	10.	25.44	34.78	23.06	481.9	0.049
30. ^A	25.32	34.79			23.11	478.4	20.	25.37	34.79	23.09	479.9	0.098
50.	24.28	34.82			23.44	447.1	30.	25.32	34.79	23.11	478.4	0.146
76.	23.01	35.02			23.97	398.1	50.	24.28	34.82	23.44	447.1	0.239
100.	22.50	35.12			24.19	377.8	75.	23.05	35.01	23.95	399.8	0.346
126.	21.58	35.12			24.45	354.2	100.	22.50	35.12	24.19	377.8	0.444
151.	19.96	34.97			24.77	324.1	150.	20.04	34.98	24.75	325.4	0.621
175.	17.74	34.75			25.16	286.9	200.	15.35	34.44	25.49	256.4	0.768
190.	16.23	34.54			25.36	268.3	250.	11.80	34.20	26.03	205.0	0.884
225.	13.43	34.29			25.78	228.9	300.	10.05	34.27	26.40	170.2	0.979
251.	11.74	34.20			26.04	204.1	400.	8.30	34.33	26.72	140.1	1.135
277.	10.52	34.22			26.27	181.7	500.	7.47	34.44	26.93	121.6	1.267
302.	10.02	34.28			26.41	169.4	600.	6.46	34.43	27.07	109.2	1.384
402.	8.27	34.33			26.73	139.7	700.	5.75	34.45	27.17	99.6	1.489
504.	7.44	34.44			26.94	121.0	800.	5.22	34.48	27.26	91.7	1.586
604.	6.42	34.43			27.07	108.8	1000.	4.24	34.50	27.38	79.8	1.759
805.	5.20	34.48			27.26	91.4	1200.	3.66	34.54	27.48	71.6	1.913
1007.	4.21	34.50			27.39	79.5	1500.	2.87	34.58	27.58	61.2	2.115
1208.	3.64	34.54			27.48	71.3						
1510.	2.85	34.58			27.59	60.9						
CROMWELL 6, STATION 22, 15-59N LAT, 150-59W LONG, JULY 23, 1964, 1400 G.C.T. DRY BULB 25.8 WET BULB 22.9 WIND SPEED 14, DIR. 11 BAR. 13 WEATHER 01 VIS. 7 CLOUD TYPE 4, COVER 1												
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	CELT	DEPTH	TEMP.	SAL.	SIGMA-T	CELT	DYN. OPTH.
0.	26.03	34.68			22.80	506.1	0.	26.03	34.68	22.80	506.1	0.000
9.	25.97	34.68			22.82	504.7	10.	25.96	34.68	22.82	504.6	0.051
47.	25.63	34.68			22.93	496.1	20.	25.88	34.67	22.84	503.2	0.102
72.	25.36	34.78			23.09	482.0	30.	25.80	34.67	22.87	501.2	0.152
95.	22.88	35.00			23.99	396.7	50.	25.67	34.69	22.92	496.9	0.253
118.	22.24	35.13			24.27	370.8	75.	25.04	34.81	23.20	470.9	0.375
143.	20.64	35.12			24.70	330.2	100.	22.70	35.04	24.07	389.1	0.483
167.	18.70	34.94			25.07	295.7	150.	20.07	35.08	24.82	319.2	0.661
182.	17.69	34.83			25.24	280.1	200.	15.44	34.54	25.54	251.6	0.805
214.	13.58	34.31			25.76	230.1	250.	11.20	34.27	26.19	189.3	0.917
240.	11.52	34.20			26.08	199.9	300.	9.89	34.40	26.52	158.6	1.004
264.	10.91	34.38			26.33	176.4	400.	8.53	34.51	26.83	130.3	1.150
288.	10.14	34.38			26.46	163.7	500.	7.17	34.44	26.97	117.1	1.275
385.	8.76	34.52			26.80	133.0	600.	6.26	34.46	27.12	104.0	1.387
483.	7.37	34.44			26.95	119.6	700.	5.68	34.49	27.21	96.0	1.488
579.	6.41	34.46			27.05	106.1	800.	5.24	34.51	27.28	90.0	1.582
771.	5.38	34.50			27.26	91.8	1000.	4.40	34.53	27.39	79.3	1.753
966.	4.53	34.53			27.38	80.9	1200.	3.72	34.56	27.49	70.9	1.905
1160.	3.86	34.55			27.46	72.9						
1452.	3.06	34.59			27.57	62.4						
TEMPERATURE ERROR TERM AT 200. METERS IS 0.18												
CROMWELL 6, STATION 23, 14-28N LAT, 150-59W LONG, JULY 23, 1964, 2200 G.C.T. DRY BULB 26.2 WET BULB 23.1 WIND SPEED 08, DIR. 09 BAR. 15 WEATHER 02 VIS. 8 CLOUD TYPE 8, COVER 3												
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	CELT	DEPTH	TEMP.	SAL.	SIGMA-T	CELT	DYN. OPTH.
0.	26.48	34.46			22.50	535.4	0.	26.48	34.46	22.50	535.4	0.000
10.	26.25	34.44			22.55	530.4	10.	26.25	34.44	22.55	530.4	0.054
30. ^A	26.14	34.45			22.60	527.2	20.	26.17	34.44	22.58	528.2	0.107
50. ^A	26.04	34.47			22.64	523.5	30.	26.14	34.45	22.60	527.2	0.160
76.	24.98	34.58			23.05	485.5	50.	26.04	34.47	22.64	523.5	0.266
100.	22.85	34.82			23.86	409.0	75.	25.04	34.57	23.03	487.7	0.393
126.	21.62	35.02			24.36	362.4	100.	22.85	34.82	23.86	409.0	0.506
151.	19.52	34.91			24.84	317.4	150.	19.61	34.92	24.82	319.1	0.690
176.	17.39	34.72			25.23	281.0	200.	14.32	34.41	25.68	237.4	0.830
190.	15.56	34.50			25.48	256.5	250.	10.98	34.41	26.34	175.1	0.934
224.	12.02	34.34			26.09	198.3	300.	9.76	34.49	26.61	149.6	1.016
249.	11.02	34.41			26.33	175.8	400.	8.28	34.46	26.83	130.2	1.157
276.	10.08	34.40			26.49	161.0	500.	7.14	34.45	26.99	115.8	1.281
300.	9.76	34.49			26.61	149.6	600.	6.44	34.48	27.11	105.3	1.393
401.	8.27	34.46			26.83	130.1	700.	5.82	34.50	27.20	96.6	1.495
501.	7.13	34.45			26.95	115.7	800.	5.29	34.52	27.28	89.6	1.589
601.	6.43	34.48			27.11	105.2	1000.	4.47	34.54	27.39	79.7	1.760
801.	5.29	34.52			27.28	89.6	1200.	3.84	34.57	27.48	71.5	1.914
1000.	4.47	34.54			27.39	79.7						
1200.	3.84	34.57			27.48	71.5						
1499.	3.03	34.60			27.59	61.6						

Table 3.--Continued

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA					
CROMWELL 6, STATION 24, 13- 2N LAT, 151- 4W LONG, JULY 24, 1964, 0700 G.C.T.		WET BULB 24.0		WIND SPEED 13, DIR. 07		BAR. 14		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTH.		
0.	26.49	34.30		22.37	547.2	0.	26.49	34.30	22.37	547.2	0.000			
9.	26.47	34.31		22.39	546.3	10.	26.44	34.31	22.40	545.6	0.055			
49.	24.26	34.40		23.13	476.7	20.	26.06	34.30	22.51	535.5	0.109			
76.	22.44	34.84		23.99	395.5	30.	25.56	34.31	22.67	520.0	0.163			
100.	20.02	34.96		24.76	323.0	50.	24.20	34.42	23.16	474.0	0.263			
124.	17.48	34.72		25.20	281.4	75.	22.52	34.82	23.96	398.6	0.373			
151.	12.99	34.30		25.67	217.7	100.	20.02	34.98	24.76	323.0	0.464			
174.	11.35	34.26		26.17	189.4	150.	13.15	34.31	25.85	219.7	0.600			
190.	11.07	34.36		26.28	179.0	200.	11.01	34.44	26.36	172.1	0.699			
223.	10.94	34.62		26.51	156.3	250.	10.71	34.70	26.61	149.1	0.760			
250.	10.71	34.70		26.61	149.1	300.	10.12	34.68	26.70	141.6	0.853			
275.	10.45	34.70		26.66	145.2	400.	8.86	34.61	26.86	128.2	0.989			
300.	10.12	34.66		26.70	141.6	500.	7.70	34.55	26.99	116.6	1.113			
401.	8.85	34.61		26.86	128.0	600.	6.73	34.52	27.10	106.3	1.226			
502.	7.68	34.55		26.99	116.4	700.	6.00	34.52	27.20	97.5	1.329			
602.	6.71	34.52		27.10	106.1	800.	5.43	34.54	27.28	89.9	1.423			
802.	5.42	34.54		27.28	89.8	1000.	4.52	34.56	27.40	78.9	1.594			
1002.	4.51	34.56		27.40	78.8	1200.	3.85	34.58	27.49	70.6	1.746			
1202.	3.84	34.58		27.49	70.8	1500.	3.14	34.60	27.57	63.0	1.949			
1503.	3.14	34.60		27.57	63.0									

TEMPERATURE ERROR TERM AT 30. METERS IS 0.12

CROMWELL 6, STATION 25, 11-30N LAT, 151- 0W LONG, JULY 24, 1964, 1600 G.C.T.						WET BULB 24.6			WIND SPEED 17, CIR. 05		BAR. 13		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTH.						
0.	27.17	34.07		21.99	584.4	0.	27.17	34.07	21.99	584.4	0.000							
9.	27.19	34.06		21.97	586.1	10.	27.19	34.06	21.97	586.3	0.059							
30. [△]	27.20	34.06		21.97	587.3	20.	27.21	34.06	21.96	587.3	0.118							
50. [△]	27.10	34.08		22.02	583.6	30.	27.20	34.06	21.97	587.3	0.177							
75.	21.67	34.50		23.95	399.4	50.	27.10	34.08	22.02	583.6	0.295							
99.	13.20	34.38		25.89	214.5	75.	21.67	34.50	23.95	399.4	0.419							
125.	11.71	34.52		26.29	177.1	100.	13.05	34.38	25.92	211.6	0.496							
151.	11.75	34.71		26.43	164.5	150.	11.74	34.70	26.43	164.7	0.591							
175.	11.05	34.66		26.52	156.2	200.	10.65	34.67	26.60	149.2	0.670							
190.	10.88	34.68		26.57	152.1	250.	9.82	34.63	26.71	139.2	0.743							
223.	10.10	34.63		26.67	143.3	300.	9.25	34.60	26.78	133.2	0.811							
250.	9.82	34.63		26.71	139.2	400.	8.24	34.56	26.91	122.2	0.940							
276.	9.56	34.62		26.75	136.2	500.	7.20	34.53	27.04	110.6	1.058							
300.	9.25	34.60		26.76	133.2	600.	6.33	34.52	27.15	100.8	1.164							
401.	8.23	34.56		26.91	122.1	700.	5.65	34.52	27.24	92.9	1.262							
502.	7.18	34.53		27.04	110.5	800.	5.11	34.53	27.31	86.6	1.353							
602.	6.31	34.52		27.15	100.6	1000.	4.30	34.54	27.41	77.7	1.519							
803.	5.10	34.53		27.31	86.4	1200.	3.65	34.56	27.49	70.1	1.669							
1004.	4.29	34.54		27.41	77.5													
1194.	3.69	34.56		27.49	70.3													
1413.	3.08	34.58		27.56	63.1													

CROMWELL 6, STATION 26, 9-58N LAT, 147-58W LONG, JULY 25, 1964, 1100 G.C.T.						WET BULB 24.0			WIND SPEED 12, DIR. 16		BAR. 15		WEATHER 15		VIS. 7		CLOUD TYPE 6, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTH.						
0.	27.02	34.06	4.92	0.24	580.6	0.	27.02	34.06	22.03	580.6	0.000							
10.	26.98	34.06	5.02	0.28	579.0	10.	26.98	34.06	22.04	579.0	0.058							
20. [△]	26.88	34.06		22.07	577.1	20.	26.88	34.06	22.07	577.1	0.117							
30. [△]	26.80	34.09		22.12	572.9	30.	26.80	34.09	22.12	572.9	0.175							
51.	25.51	34.42	5.20	1.16	511.5	50.	25.61	34.40	22.73	515.7	0.284							
76.	21.57	34.59	5.38	0.58	24.05	390.3	75.	21.76	34.59	23.99	395.5	0.399						
102.	16.14	34.42	4.04	1.07	25.29	272.3	100.	16.54	34.43	25.21	280.3	0.484						
126.	13.09	34.62	0.88	1.88	26.10	195.5	150.	11.78	34.70	26.41	166.0	0.597						
153.	11.70	34.70	0.90	2.30	26.43	164.3	200.	10.89	34.72	26.60	149.7	0.676						
176.	11.22	34.72	0.66	2.12	26.54	154.8	250.	10.26	34.72	26.71	139.9	0.749						
192.	11.00	34.72	0.32	2.41	26.56	151.3	300.	9.82	34.70	26.77	135.1	0.819						
226.	10.56	34.72	0.56	2.34	26.66	144.5	400.	8.93	34.65	26.88	126.1	0.950						
252.	10.24	34.72	0.48	2.48	26.71	139.6	500.	7.72	34.57	27.00	115.7	1.072						
278.	9.99	34.70	0.63	2.38	26.74	137.5	600.	6.68	34.53	27.11	104.8	1.184						
304.	9.79	34.70	0.67	2.14	26.77	134.7	700.	5.83	34.52	27.22	95.3	1.285						
404.	8.89	34.65	0.24	2.47	26.86	125.8	800.	5.15	34.53	27.31	87.1	1.377						
507.	7.63	34.56	0.35	2.47	27.00	115.0	1000.	4.18	34.56	27.44	74.8	1.541						
607.	6.61	34.53	0.58	2.38	27.12	104.1	1200.	3.56	34.59	27.53	66.7	1.684						
809.	5.10	34.53	0.90	2.79	27.31	86.5	1500.	2.81	34.61	27.61	58.2	1.674						
1011.	4.14	34.56	1.34	2.90	27.44	74.3												
1212.	3.53	34.59	1.70	2.57	27.53	66.3												
1515.	2.78	34.61	1.90	2.52	27.62	57.9												

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 6, STATION 27, 11-25N LAT, 147-58W LCNG, JULY 25, 1964, 2000 G.C.T.														
DRY BULB 24.9	WET BULB 24.0	WIND SPEED 12, DIR. 06	BAR. 16	WEATHER 20	VIS. 4	CLOUD TYPE 9, COVER 9								
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTH.		
0.	26.90	33.88	4.85	0.25	21.93	589.9	0.	26.90	33.88	21.93	589.9	0.000		
9.	26.87	33.89	5.08	0.46	21.95	588.6	10.	26.87	33.90	21.95	588.2	0.059		
30. ^Δ	26.60	34.14			22.22	563.3	20.	26.80	33.99	22.04	579.6	0.118		
50. ^Δ	25.50	34.51			22.84	504.7	30.	26.60	34.14	22.22	563.3	0.176		
48.	25.54	34.51	5.13	0.10	22.83	505.8	50.	25.50	34.51	22.84	504.7	0.263		
72.	21.18	34.61	5.34	0.30	24.17	378.5	75.	20.53	34.59	24.33	363.4	0.393		
95.	16.49	34.43	3.51	1.07	25.22	279.1	100.	15.70	34.41	25.38	263.6	0.472		
117.	13.58	34.38	2.01	1.31	25.81	222.4	150.	11.57	34.49	26.30	177.0	0.583		
142.	11.04	34.44	1.21	2.03	26.20	185.7	200.	10.78	34.64	26.55	153.6	0.666		
163.	11.32	34.58	0.41	1.72	26.41	166.6	250.	10.13	34.62	26.65	144.9	0.741		
176.	11.19	34.62	0.34		26.46	161.6	300.	9.66	34.62	26.73	138.2	0.813		
206.	10.68	34.64	0.26	2.49	26.57	152.0	400.	8.39	34.55	26.88	125.5	0.946		
230.	10.46	34.64	0.19	2.03	26.61	148.7	500.	7.31	34.52	27.02	113.4	1.066		
253.	10.08	34.62	0.18		26.66	144.3	600.	6.44	34.52	27.14	102.4	1.175		
278.	9.90	34.63	0.16		26.70	141.1	700.	5.69	34.52	27.23	93.5	1.274		
369.	6.82	34.57	0.25		26.83	129.8	800.	5.08	34.53	27.31	86.4	1.365		
454.	7.76	34.52	0.42		26.95	118.9	1000.	4.22	34.56	27.43	75.5	1.529		
544.	6.92	34.52	0.42	2.26	27.07	108.2	1200.	3.52	34.59	27.53	66.4	1.673		
723.	5.53	34.52	0.65	2.07	27.25	91.8								
904.	4.59	34.54	0.94	3.08	27.38	80.3								
1083.	3.94	34.57	1.30	2.00	27.47	71.7								
1285.	3.28	34.60	1.66	2.05	27.56	63.1								

CROMWELL 6, STATION 28, 12-59N LAT, 148-6W LCNG, JULY 26, 1964, 0600 G.C.T.					DERIVED DATA					INTERPOLATED DATA				
DRY BULB 26.3	WET BULB 23.0	WIND SPEED 19, DIR. 05	BAR. 14	WEATHER 01	VIS. 8	CLOUD TYPE 4, COVER 3								
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTH.		
0.	26.74	34.14	4.96	0.27	22.17	566.3	0.	26.74	34.14	22.17	566.3	0.000		
10.	26.73	34.14	5.05	0.24	22.18	566.4	10.	26.73	34.14	22.18	566.4	0.057		
20. ^Δ	26.73	34.14			22.18	566.8	20.	26.73	34.14	22.18	566.8	0.114		
30. ^Δ	25.30	34.50			22.85	498.7	30.	25.30	34.50	22.89	498.7	0.168		
51.	25.04	34.54	5.26	0.24	23.00	489.1	50.	25.02	34.55	23.02	487.9	0.267		
78.	23.44	34.63	5.49	0.26	23.55	438.2	75.	23.68	34.62	23.47	445.5	0.385		
103.	21.01	34.70	4.92	0.28	24.28	366.7	100.	21.34	34.70	24.19	377.6	0.488		
126.	18.30	34.66	4.34	0.77	24.96	305.0	150.	13.30	34.30	25.81	223.3	0.640		
153.	12.74	34.27	2.74	1.64	25.90	215.2	200.	11.47	34.66	26.45	163.9	0.737		
176.	12.04	34.59	0.76	2.08	26.28	179.2	250.	10.29	34.63	26.64	146.8	0.816		
193.	11.73	34.67	0.83	2.45	26.40	166.1	300.	9.85	34.65	26.72	139.6	0.888		
227.	10.52	34.60	0.58	2.30	26.57	152.6	400.	8.68	34.59	26.87	126.7	1.022		
253.	10.28	34.64	0.72	2.41	26.64	146.2	500.	7.67	34.54	26.99	116.6	1.145		
280.	10.09	34.66	0.69	2.22	26.65	142.1	600.	6.75	34.52	27.10	106.6	1.258		
305.	9.78	34.64	0.73	2.30	26.73	138.9	700.	5.94	34.52	27.20	97.0	1.361		
406.	8.62	34.59	0.67	2.44	26.88	126.0	800.	5.26	34.53	27.29	88.5	1.454		
509.	7.58	34.54	0.91	2.43	27.00	115.7	1000.	4.31	34.56	27.42	76.4	1.621		
609.	6.67	34.52	0.79	2.52	27.11	105.7	1200.	3.70	34.58	27.50	69.1	1.769		
811.	5.19	34.53	0.64	2.57	27.30	87.6	1500.	2.96	34.60	27.59	60.8	1.966		
1014.	4.26	34.56	0.94	2.05	27.43	75.8								
1216.	3.66	34.58	1.47	2.81	27.51	68.7								
1520.	2.93	34.60	1.96	2.69	27.59	60.5								

TEMPERATURE ERROR TERM AT 15°C. METERS IS 0.12

CROMWELL 6, STATION 29, 14-41N LAT, 148-7W LCNG, JULY 26, 1964, 1600 G.C.T.					DERIVED DATA					INTERPOLATED DATA				
DRY BULB 25.2	WET BULB 21.5	WIND SPEED 16, DIR. 05	BAR. 14	WEATHER 02	VIS. 7	CLOUD TYPE 8, COVER 6								
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTH.		
1.	25.64	34.58	5.14	0.27	22.85	501.8	0.	25.64	34.58	22.85	501.8	0.000		
9.	25.66	34.57	5.05		22.84	503.4	10.	25.66	34.57	22.84	503.5	0.051		
30. ^Δ	25.65	34.57			22.84	504.0	20.	25.66	34.57	22.83	504.1	0.101		
50. ^Δ	25.60	34.57			22.85	503.3	30.	25.65	34.57	22.84	504.0	0.152		
73.	25.04	34.56	5.24	0.23	23.02	488.5	50.	25.60	34.57	22.85	503.3	0.254		
98.	22.87	34.64	5.39	0.23	23.72	422.5	75.	24.88	34.56	23.07	483.9	0.378		
121.	21.51	34.82	5.22		24.24	373.8	100.	22.78	34.66	23.76	418.7	0.492		
146.	17.44	34.62	4.29	0.76	25.14	288.4	150.	16.88	34.57	25.23	279.2	0.667		
170.	14.54	34.39	3.67	1.10	25.62	242.5	200.	12.39	34.39	26.06	200.7	0.788		
183.	13.52	34.40	1.86	1.73	25.84	221.5	250.	10.70	34.49	26.45	164.4	0.860		
217.	11.54	34.40	1.59		26.23	185.0	300.	9.70	34.50	26.63	147.9	0.959		
243.	10.82	34.48	1.13	2.25	26.42	167.0	400.	9.03	34.60	26.82	131.8	1.100		
268.	10.41	34.50	0.99		26.51	159.0	500.	7.85	34.55	26.97	118.5	1.227		
291.	9.81	34.49	0.83	2.53	26.61	150.2	600.	6.97	34.52	27.06	109.9	1.342		
390.	9.15	34.60	0.33	2.70	26.80	133.3	700.	6.17	34.51	27.16	101.1	1.449		
488.	7.97	34.56	0.40	2.44	26.95	119.7	800.	5.50	34.51	27.25	92.9	1.547		
588.	7.07	34.52	0.42	2.67	27.05	111.0	1000.	4.54	34.54	27.39	80.5	1.722		
783.	5.60	34.51	1.08		27.24	94.2	1200.	3.83	34.56	27.48	71.8	1.876		
982.	4.61	34.54	0.99	2.77	27.38	81.3								
1179.	3.93	34.56	1.26	2.03	27.47	73.2								
1476.	3.17	34.59	1.99	3.11	27.56	63.9								

Table 3.--Continued

ORIGINAL DATA						DERIVED DATA						INTERPOLATED DATA					
CROMWELL		6, STATION 30, 15-59N LAT, 147-58W LCNG, JULY 27, 1964, ICOO G.C.T.		DRY BULB 25.6 WET BULB 21.5		WIND SPEED 16, OIR. 05		BAR. 14		WEATHER 01		VIS. 8		CLOUD TYPE 6, COVER 2			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	CELT	DEPTH	TEMP.	SAL.	SIGMA-T	CELT	DYN-OPTH.					
0.	25.94	34.52	5.02	0.31	22.71	515.0	0.	25.94	34.52	22.71	515.0	0.000					
9.	25.93	34.52	5.07	0.22	22.71	515.0	10.	25.92	34.52	22.72	514.9	0.052					
71.	25.11	34.57	5.11	0.27	23.00	489.8	20.	25.86	34.53	22.74	512.8	0.104					
93.	24.66	34.58	5.20	0.34	23.15	476.9	30.	25.76	34.53	22.78	509.9	0.155					
117.	22.32	34.56	5.34	0.45	23.81	414.0	50.	25.50	34.55	22.87	501.7	0.257					
141.	19.52	34.70	4.91	0.43	24.68	332.2	75.	25.09	34.57	23.01	489.2	0.382					
164.	16.06	34.46	3.31	0.98	25.34	269.5	100.	24.10	34.57	23.31	462.1	0.502					
177.	14.17	34.35	3.11	1.44	25.67	238.0	150.	18.20	34.62	24.95	306.1	0.695					
209.	11.73	34.20	3.43	1.56	26.04	202.9	200.	12.18	34.22	25.97	209.7	0.825					
235.	10.82	34.30	2.11	1.62	26.28	180.1	250.	10.39	34.33	26.38	171.2	0.921					
258.	10.21	34.34	1.68	2.28	26.42	167.2	300.	9.65	34.47	26.62	149.0	1.002					
281.	9.90	34.44	1.18	2.29	26.55	155.2	400.	8.40	34.47	26.82	131.3	1.143					
395.	8.46	34.47	0.54	2.59	26.81	132.2	500.	7.21	34.45	26.98	116.8	1.269					
494.	7.27	34.45	0.53	3.07	26.97	117.6	600.	6.34	34.46	27.10	105.5	1.381					
593.	6.40	34.46	0.51	2.88	27.10	106.1	700.	5.72	34.48	27.20	97.2	1.483					
623.*	6.17	34.46	0.47	2.41	27.13	103.4	800.	5.26	34.50	27.27	90.5	1.518					
789.	5.31	34.50	0.76	2.46	27.26	91.2	1000.	4.48	34.52	27.37	81.4	1.752					
990.	4.45	34.52	1.20	2.69	27.38	80.9	1200.	3.60	34.57	27.51	68.6	1.904					
1188.	3.81	34.56	1.26	2.69	27.48	71.8											
1200.**	3.60**	34.57**			27.51	68.6											

CROMWELL 6, STATION 31, 17-31N LAT, 147-58W LCNG, JULY 27, 1964, ICOO G.C.T.						DRY BULB 24.5 WET BULB 21.2						WIND SPEED 20, CIR. 05 BAR. 16 WEATHER 03						VIS.		CLOUD TYPE 7, CDVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTH.									
0.	25.24	34.62	5.03	0.45	23.44	487.2	0.	25.24	34.62	23.00	487.2	0.000									
11.	25.27	34.62	5.05	0.30	22.55	488.5	10.	25.27	34.62	22.99	488.4	0.049									
50.△	25.00	34.64			23.09	480.7	20.	25.32	34.62	22.98	490.5	0.098									
78.	23.71	34.72	5.32	0.16	23.54	439.2	30.	25.30	34.62	22.98	490.1	0.148									
101.	22.48	34.96	5.26	0.17	24.07	388.9	50.	25.00	34.64	23.09	480.7	0.246									
125.	21.80	35.07	5.01	0.26	24.35	363.6	75.	23.77	34.71	23.52	441.1	0.362									
151.	20.78	35.09	5.10	0.26	24.64	336.3	100.	22.52	34.95	24.05	390.7	0.466									
176.	18.90	34.88	4.55	0.50	24.97	305.2	150.	20.83	35.09	24.63	337.4	0.650									
190.	17.71	34.73	4.34	0.65	25.16	288.1	200.	16.47	34.59	25.34	270.5	0.803									
224.	13.57	34.29	3.57	1.21	25.75	231.6	250.	11.93	34.21	26.01	206.9	0.924									
252.	11.84	34.21	3.06	1.62	26.03	205.2	300.	9.83	34.24	26.41	169.3	1.018									
277.	10.53	34.21	2.96	1.58	26.26	182.6	400.	8.74	34.46	26.75	137.5	1.173									
301.	9.81	34.24	2.56	2.04	26.41	168.8	500.	7.73	34.49	26.93	121.5	1.304									
401.	8.74	34.46	0.57	2.50	26.76	137.4	600.	6.63	34.46	27.07	109.4	1.420									
502.	7.71	34.49	0.25	2.01	26.94	121.2	700.	5.89	34.47	27.17	100.1	1.526									
602.	6.61	34.46	0.42	2.66	27.07	109.2	800.	5.36	34.49	27.25	92.8	1.624									
803.	5.35	34.49	0.73	2.94	27.25	92.6	1000.	4.47	34.51	27.37	82.0	1.801									
1004.	4.46	34.51	0.98	2.74	27.37	81.9	1200.	3.79	34.54	27.46	73.2	1.958									
1204.	3.78	34.54	1.18	2.93	27.46	73.0															
1438.	3.04	34.58	1.52	2.69	27.57	62.8															

TEMPERATURE ERRCR TERM AT 200. METERS IS 0.14

CROMWELL 6, STATION 32, 19-2N LAT, 148- CW LCNG, JULY 27, 1964, ICOO G.C.T.						DRY BULB 25.2 WET BULB 22.2						WIND SPEED 20, CIR. 05 BAR. 15						VIS. 8		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	CELT	DEPTH	TEMP.	SAL.	SIGMA-T	CELT	DYN-OPTH.									
11.	25.28	34.67	5.12	0.22	23.03	484.1	0.	25.26	34.67	23.03	484.1	0.000									
30.△	25.28	34.68			23.04	485.2	10.	25.28	34.67	23.03	485.3	0.049									
50.△	25.24	34.68			23.05	484.8	30.	25.28	34.68	23.04	485.2	0.147									
77.	24.70	34.69	5.15	0.17	23.22	469.5	50.	25.24	34.68	23.05	484.8	0.244									
102.	22.99	34.97	5.41	0.27	23.93	402.1	75.	24.77	34.68	23.19	472.0	0.365									
126.	22.33	35.06	5.36	0.23	24.19	378.5	100.	23.13	34.95	23.88	407.6	0.476									
151.	21.45	35.16	5.25	0.19	24.51	348.0	150.	21.50	35.16	24.50	350.1	0.666									
176.	19.52	35.00	4.75	0.48	24.91	311.8	200.	17.76	34.76	25.16	287.6	0.827									
191.	18.54	34.87	4.64	0.35	25.06	297.7	250.	12.83	34.23	25.85	222.6	0.956									
225.	15.30	34.44	4.06	1.02	25.49	256.4	300.	10.44	34.18	26.26	183.7	1.058									
251.	12.74	34.22	3.96	1.11	25.86	221.3	400.	7.87	34.22	26.70	141.9	1.223									
277.	11.28	34.20	3.75	1.37	26.12	196.4	500.	6.50	34.31	26.96	117.4	1.353									
301.	10.41	34.18	3.43	1.71	26.26	183.3	600.	5.69	34.38	27.12	102.8	1.465									
402.	7.83	34.22	1.91	2.13	26.71	141.2	700.	5.16	34.43	27.23	93.3	1.564									
502.	6.48	34.31	0.88	2.17	26.97	117.0	800.	4.77	34.47	27.30	86.7	1.655									
603.	5.67	34.38	0.68	2.77	27.13	102.4	1000.	4.13	34.52	27.41	77.1	1.820									
804.	4.76	34.47	0.88		27.30	86.5	1200.	3.57	34.54	27.49	70.5	1.970									
1004.	4.12	34.52	1.33	2.75	27.41	76.9	1500.	2.87	34.57	27.58	61.9	2.171									
1205.	3.56	34.54	1.42	2.57	27.49	70.3															
1506.	2.86	34.57	1.74	2.78	27.58	61.8															

*FROM BT DATA

*INTERPOLATED DATA

**EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 6, STATION 33, 20-30N LAT, 147-58W LENG, JULY 28, 1964, 0300 G.C.T.	WET BULB 21.1	WIND SPEED 23, DIR. C6	BAR. 16	WEATHER 03	VIS. 7	CLOUD TYPE 6, COVER 8						
DRY BULB 25.0												
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
1.	24.81	34.85	5.04	0.09	23.31	458.2	C.	24.81	34.85	23.31	458.1	0.000
1C.	24.82	34.85	5.11	0.18	23.3C	458.8	1C.	24.82	34.85	23.30	458.8	0.046
20.	24.82	34.85			23.3C	459.2	20.	24.82	34.85	23.30	459.2	0.092
30.	24.82	34.85			23.3C	459.6	30.	24.82	34.85	23.30	459.6	0.139
49.	24.15	35.10	5.34		23.69	423.1	50.	24.08	35.10	23.72	420.7	0.227
73.	22.38	35.14	5.49	0.23	24.24	372.1	75.	22.30	35.14	24.26	369.9	0.327
98.	21.70	35.18	5.34	0.20	24.4C	352.0	100.	21.66	35.19	24.47	350.5	0.418
123.	21.11	35.23	5.24	0.27	24.66	333.8	150.	19.98	35.10	24.86	314.9	0.585
148.	20.06	35.11	4.26	0.29	24.85	316.4	200.	17.47	34.78	25.25	279.0	0.735
173.	18.91	34.98	4.18	0.52	25.05	298.1	250.	13.33	34.29	25.80	227.5	0.863
186.	18.20	34.88	4.70	0.57	25.15	289.7	300.	10.58	34.14	26.20	189.3	0.968
219.	16.26	34.63	4.73	0.55	25.42	263.3	400.	7.86	34.08	26.59	152.0	1.140
246.	13.73	34.33	4.87	0.68	25.74	232.5	500.	6.19	34.13	26.86	126.6	1.281
271.	11.57	34.15	4.74		26.03	205.2	600.	5.71	34.31	27.06	108.3	1.399
296.	10.71	34.14	4.73	1.17	26.18	191.3	700.	5.21	34.40	27.19	96.4	1.503
396.	7.95	34.08	3.18	2.09	26.58	153.3	800.	4.76	34.44	27.28	88.4	1.596
495.	6.23	34.12	1.72	1.90	26.85	127.6	1000.	4.14	34.52	27.41	77.1	1.764
594.	5.74	34.30	0.72	3.23	27.05	109.2	1200.	3.57	34.55	27.50	69.3	1.912
794.	4.78	34.44	0.81		27.28	88.9						
994.	4.16	34.52	1.04	2.56	27.41	77.3						
1194.	3.59	34.54	1.21	2.81	27.48	70.6						
1459.	2.86	34.58	1.63	2.95	27.58	60.8						
CROMWELL 6, STATION 34, 22- IN LAT, 147-57W LONG, JULY 28, 1964, 1200 G.C.T.				DRY BULB 23.5 WET BULB 19.8 WIND SPEED 20, DIR. 07				BAR. 17 WEATHER 02 VIS. 6 CLOUD TYPE 6, COVER 7				
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	24.09	34.96	5.23	0.36	23.61	429.6	C.	24.09	34.96	23.61	429.6	0.000
1C.	24.13	34.96	5.29		23.59	431.1	1C.	24.13	34.96	23.59	431.1	0.043
20.	24.12	34.96			23.6C	431.2	20.	24.12	34.96	23.60	431.2	0.087
30.	24.10	34.96			23.6C	431.1	30.	24.10	34.96	23.60	431.1	0.130
50.	22.32	35.06	5.61	0.18	24.19	375.4	50.	22.32	35.06	24.19	375.4	0.211
75.	21.58	35.12	5.50	0.20	24.45	352.3	75.	21.58	35.12	24.45	352.3	0.303
99.	21.20	35.18	5.52	0.30	24.6C	338.8	100.	21.18	35.18	24.60	338.2	0.390
123.	20.81	35.24	5.51	0.22	24.75	325.2	150.	20.28	35.24	24.89	312.8	0.554
148.	20.32	35.24	5.38	0.24	24.88	313.6	200.	18.70	35.00	25.11	292.8	0.707
172.	19.84	35.19	5.22	0.29	24.97	305.9	250.	14.54	34.40	25.63	243.8	0.842
187.	19.49	35.13	5.22	0.26	25.01	302.0	300.	11.26	34.09	26.04	204.6	0.955
220.	17.10	34.74	5.05	0.57	25.31	274.2	400.	8.16	34.11	26.57	154.5	1.136
245.	15.04	34.46	5.02	0.64	25.57	250.0	500.	6.76	34.20	26.85	128.7	1.279
271.	12.62	34.20	4.92	0.82	25.87	221.0	600.	5.63	34.27	27.04	110.1	1.400
295.	11.47	34.10	5.00	1.02	26.01	207.6	700.	5.07	34.36	27.18	97.6	1.505
394.	8.27	34.10	3.07	2.16	26.55	156.5	800.	4.77	34.44	27.28	89.0	1.599
493.	6.86	34.20	1.29	2.48	26.83	130.3	1000.	4.09	34.49	27.40	78.4	1.769
590.	5.70	34.26	0.83	2.66	27.03	111.6	1200.	3.54	34.53	27.48	70.7	1.920
786.	4.82	34.43	0.84	2.89	27.27	90.0						
982.	4.14	34.49	1.14	2.55	27.39	79.2						
1178.	3.61	34.52	1.27	2.86	27.47	72.2						
1474.	2.97	34.57	1.60	2.73	27.57	62.9						
CROMWELL 6, STATION 35, 23-31N LAT, 147-57W LENG, JULY 28, 1964, 2100 G.C.T.				DRY BULB 24.9 WET BULB 19.4 WIND SPEED 18, DIR. C6				BAR. 21 WEATHER 01 VIS. 7 CLOUD TYPE 8, COVER 1				
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	24.18	35.04	5.19	0.26	23.64	426.4	0.	24.18	35.04	23.64	426.4	0.000
1C.	24.21	35.04	5.21	0.19	23.63	427.6	1C.	24.21	35.04	23.63	427.6	0.043
30.	24.18	35.04			23.64	427.6	2C.	24.27	35.03	23.66	430.4	0.086
50.	23.09	35.20	5.60	0.14	24.08	386.3	30.	24.18	35.04	23.64	427.6	0.129
75.	21.86	35.24	5.50	0.19	24.46	351.0	50.	23.09	35.20	24.08	386.3	0.211
102.	21.13	35.30	5.43	0.48	24.71	328.4	75.	21.86	35.24	24.46	351.0	0.304
125.	20.77	35.28	5.39	0.13	24.75	321.4	100.	21.17	35.30	24.69	329.6	0.390
151.	19.62	35.13	5.35	0.33	24.98	304.0	150.	19.67	35.14	24.97	304.7	0.550
175.	18.46	34.94	5.03	0.23	25.13	290.2	200.	17.31	34.76	25.27	277.0	0.696
190.	17.85	34.84	4.99	0.31	25.21	283.4	250.	14.20	34.37	25.68	239.2	0.827
223.	15.90	34.57	4.87	0.50	25.46	259.8	300.	11.77	34.14	25.99	210.1	0.940
250.	14.20	34.37	4.89	0.72	25.68	239.2	400.	8.47	34.04	26.47	164.1	1.129
275.	12.70	34.22	4.92	0.64	25.87	221.1	500.	6.45	34.06	26.77	135.2	1.280
301.	11.74	34.14	4.86	0.27	25.99	209.7	600.	5.29	34.13	26.97	116.1	1.407
400.	8.47	34.04	3.98	1.72	26.47	164.1	700.	4.68	34.24	27.13	101.3	1.516
501.	6.44	34.06	2.19	1.98	26.78	135.0	800.	4.36	34.36	27.26	89.8	1.613
601.	5.28	34.13	1.17	2.21	26.98	116.0	1000.	3.88	34.48	27.41	77.0	1.782
801.	4.36	34.36	0.73	2.68	27.26	89.7	1200.	3.44	34.52	27.48	70.3	1.931
1001.	3.88	34.48	1.09	2.68	27.41	76.9						
1201.	3.44	34.52	1.28	2.18	27.48	70.3						
1499.	2.79	34.57	1.73	2.42	27.58	60.9						

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA									
CROMWELL		6, STATION 36, 25- ON LAT, 148- 0W LONG, JULY 29, 1964, 0600 G.C.T.		CRY BULB 23.2		WET BULB 19.5		WIND SPEED 24, DIR. 08		BAR. 21		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	24.10	35.13	5.20	0.32	23.73	417.6	0.	24.10	35.13	23.73	417.6	0.000					
9.	24.13	35.13	5.25	0.20	23.72	418.8	10.	24.13	35.13	23.72	418.9	0.042					
30. ^Δ	24.13	35.13			23.72	419.7	20.	24.14	35.13	23.72	419.5	0.084					
50. ^Δ	24.08	35.13			23.74	419.0	30.	24.13	35.13	23.72	419.7	0.127					
76.	21.64	35.25	5.45	0.12	24.53	346.5	50.	24.08	35.13	23.74	419.0	0.211					
99.	21.14	35.32	5.52	0.18	24.72	327.2	75.	21.74	35.24	24.50	347.5	0.308					
123.	20.75	35.30	5.52	0.62	24.81	319.4	100.	21.13	35.32	24.72	326.8	0.393					
149.	19.82	35.16	5.28	0.26	24.95	306.7	150.	19.77	35.15	24.96	306.1	0.552					
173.	18.65	34.99	5.18	0.22	25.12	291.1	200.	17.24	34.76	25.30	275.0	0.699					
188.	17.88	34.86	5.08	0.56	25.21	282.6	250.	13.98	34.35	25.71	235.8	0.827					
221.	16.01	34.60	5.07	0.45	25.46	260.0	300.	11.25	34.12	26.06	202.5	0.938					
247.	14.22	34.38	5.11	0.70	25.68	238.8	400.	8.97	34.06	26.41	170.7	1.126					
272.	12.36	34.20	4.99	0.91	25.92	216.1	500.	6.80	34.02	26.70	142.8	1.284					
298.	11.31	34.12	4.96	1.25	26.05	203.3	600.	5.44	34.09	26.92	121.1	1.418					
395.	9.09	34.06	4.73	1.42	26.39	172.2	700.	4.69	34.21	27.10	104.1	1.531					
495.	6.89	34.02	2.88	2.09	26.68	144.0	800.	4.30	34.33	27.24	91.3	1.630					
593.	5.51	34.08	1.50	2.43	26.91	122.5	1000.	3.87	34.47	27.40	77.9	1.801					
790.	4.33	34.32	0.66	2.72	27.23	92.2	1200.	3.41	34.54	27.50	66.6	1.950					
987.	3.90	34.46	1.03	2.80	27.39	78.5											
1185.	3.42	34.52	1.35	2.64	27.48	70.0											
1484.	2.80	34.58	1.80	2.61	27.59	60.2											
CROMWELL		6, STATION 37, 26-30 LAT, 147-58W LONG, JULY 29, 1964, 1600 G.C.T.		CRY BULB 22.1		WET BULB 19.8		WIND SPEED 12, DIR. 08		BAR. 13		WEATHER 03		VIS. 7		CLOUD TYPE 6, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
1.	23.22	35.41	5.31	0.08	24.20	372.9	0.	23.22	35.41	24.20	372.8	0.000					
10.	23.26	35.41	5.03	0.09	24.19	374.3	10.	23.26	35.41	24.19	374.3	0.038					
51.	22.38	35.28	5.42	0.17	24.34	361.2	20.	23.27	35.39	24.17	376.4	0.075					
76.	20.30	35.18	5.72	0.32	24.84	314.8	30.	23.13	35.36	24.19	375.0	0.113					
100.	19.69	35.16	5.70	0.11	24.98	301.7	50.	22.43	35.28	24.33	362.2	0.188					
124.	19.24	35.14	5.63	0.46	25.09	292.9	75.	20.38	35.18	24.82	316.6	0.273					
151.	18.92	35.10	5.57	0.98	25.14	288.9	100.	19.69	35.16	24.98	301.7	0.351					
174.	18.24	34.96	5.49	0.15	25.20	283.4	150.	18.93	35.10	25.14	289.0	0.500					
189.	17.09	34.75	5.42	0.24	25.32	272.3	200.	16.43	34.65	25.40	265.0	0.639					
223.	15.24	34.51	5.06	0.51	25.56	249.9	250.	13.78	34.35	25.75	231.9	0.765					
248.	13.87	34.36	5.02	0.64	25.74	233.2	300.	11.96	34.22	26.01	208.1	0.876					
274.	12.79	34.28	5.03	0.76	25.90	218.5	400.	9.75	34.12	26.32	179.0	1.071					
299.	11.99	34.22	5.15	0.88	26.01	208.4	500.	7.33	34.02	26.62	150.3	1.237					
397.	9.83	34.12	4.94	1.30	26.31	179.9	600.	5.73	34.07	26.88	126.0	1.377					
498.	7.37	34.02	3.41	1.91	26.62	150.9	700.	4.89	34.17	27.05	109.0	1.495					
598.	5.75	34.07	1.82	2.29	26.87	126.4	800.	4.45	34.28	27.19	96.5	1.599					
796.	4.47	34.28	0.53	2.77	27.19	96.9	1000.	3.89	34.44	27.38	79.6	1.770					
995.	3.90	34.44	0.80	3.06	27.37	80.1	1200.	3.43	34.53	27.49	69.3	1.929					
1194.	3.48	34.52	1.21	2.80	27.48	70.7											
1453.	2.88	34.58	1.52	2.58	27.58	61.0											
CROMWELL		6, STATION 38, 25- ON LAT, 151- 0W LONG, JULY 30, 1964, 0600 G.C.T.		CRY BULB 23.3		WET BULB 20.8		WIND SPEED 17, DIR. 06		BAR. 22		WEATHER 01		VIS. 7		CLOUD TYPE 6, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	24.49	35.08			23.58	432.3	0.	24.49	35.08	23.58	432.3	0.000					
10. ^Δ	24.49	35.08			23.56	432.7	10.	24.49	35.08	23.58	432.7	0.044					
30. ^Δ	24.20	35.10			23.68	423.8	20.	24.47	35.08	23.58	432.7	0.087					
51.	22.14	35.28			24.41	354.7	30.	24.20	35.10	23.60	423.8	0.130					
76.	21.21	35.31			24.69	328.9	50.	22.25	35.27	24.37	358.2	0.209					
101.	20.46	35.18			24.80	319.8	75.	21.23	35.31	24.69	329.2	0.296					
125.	20.24	35.27			24.92	308.5	100.	20.48	35.18	24.79	320.0	0.377					
151.	19.60	35.18			25.02	299.9	150.	19.64	35.19	25.02	300.2	0.534					
177.	18.23	34.94			25.19	284.7	200.	16.75	34.69	25.36	268.9	0.677					
191.	17.43	34.80			25.26	276.6	250.	13.61	34.31	25.75	231.9	0.803					
224.	14.93	34.44			25.57	248.5	300.	11.62	34.10	26.04	204.6	0.913					
252.	13.52	34.30			25.76	230.7	400.	8.45	34.04	26.47	163.7	1.099					
276.	12.27	34.20			25.94	214.5	500.	6.61	34.02	26.72	140.3	1.233					
301.	11.60	34.18			26.05	204.2	600.	5.30	34.12	26.96	117.0	1.303					
401.	8.42	34.04			26.48	163.4	700.	4.68	34.24	27.13	101.2	1.493					
501.	6.60	34.02			26.72	140.1	800.	4.41	34.36	27.26	90.2	1.590					
600.	5.30	34.12			26.96	117.0	1000.	3.96	34.49	27.41	77.1	1.759					
799.	4.41	34.36			27.26	90.3	1200.	3.40	34.54	27.49	69.6	1.908					
1000.	3.96	34.49			27.41	77.1											
1199.	3.48	34.52			27.46	70.8											
1428.	2.93	34.55			27.55	63.6											

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 6, STATION 39, 25- ON LAT, 154- LW LCHG, JULY 31, 1964, 0600 G.C.T. DRY BULB 24.0 WET BULB 21.0 WIND SPEED 20, DIR. C7 84R. 2C WEATHER 03 V15. 6 CLOUD TYPE 8, COVER 6												
DEPTH	TEMP.	SAL.	EXY.	PO4-P	SIGMA-T	CELT	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	25.18	34.92	5.16	0.24	23.25	463.8	0.	25.18	34.92	23.25	463.8	0.000
10.	25.20	34.92	5.21		23.24	464.8	10.	25.20	34.92	23.24	464.8	0.047
30.	24.35	35.12	5.37	0.46	23.65	427.5	20.	25.18	34.96	23.28	461.7	0.093
50.	22.60	35.14	5.37	0.15	24.17	378.2	30.	25.05	35.01	23.35	454.9	0.140
100.	21.86	35.23	5.37		24.45	352.8	50.	24.44	35.11	23.61	430.7	0.229
120.	20.94	35.20	5.06	0.18	24.68	331.6	75.	22.74	35.14	24.13	382.1	0.331
150.	19.48	35.03	4.80	0.70	24.94	301.8	100.	21.90	35.22	24.43	354.3	0.424
177.	18.15	34.88	4.68	0.49	25.16	287.2	150.	19.60	35.05	24.92	309.5	0.591
192.	17.34	34.78	4.80	0.60	25.28	276.0	200.	16.96	34.73	25.34	270.9	0.737
227.	15.68	34.58	4.84	0.49	25.52	254.4	250.	14.42	34.44	25.68	238.7	0.866
253.	14.25	34.42	4.84	0.81	25.71	236.7	300.	12.08	34.21	25.98	210.8	0.979
279.	12.97	34.29	4.84	0.69	25.87	221.3	400.	9.26	34.08	26.38	173.6	1.173
303.	11.36	34.20	4.89	0.85	26.00	209.4	500.	7.02	34.01	26.66	146.6	1.335
405.	9.16	34.08	4.44	1.25	26.39	172.1	600.	5.62	34.07	26.89	124.6	1.472
506.	6.91	34.01	3.40		26.67	145.2	700.	4.75	34.18	27.08	106.7	1.589
607.	5.55	34.08	1.61	2.22	26.90	123.2	800.	4.22	34.30	27.23	92.6	1.689
809.	4.19	34.31	0.66	2.52	27.24	91.5	1000.	3.78	34.47	27.41	76.1	1.860
1009.	3.77	34.48	1.16	2.65	27.42	75.7	1200.	3.32	34.53	27.50	68.2	2.006
1211.	3.29	34.53	1.49	3.22	27.50	67.9						
1466.	2.77	34.57	1.75	2.28	27.58	60.5						
CROMWELL 6, STATION 40, 25- ON LAT, 157- LW LCHG, JULY 31, 1964, 2100 G.C.T. DRY BULB 25.5 WET BULB 22.1 WIND SPEED 14, CIR. C7 84R. 2C WEATHER 03 V15. 8 CLOUD TYPE 8, COVER 5												
DEPTH	TEMP.	SAL.	EXY.	PO4-P	SIGMA-T	CELT	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	24.79	35.10			23.50	439.5	0.	24.79	35.10	23.50	439.5	0.000
10.	24.72	35.10			23.52	437.9	10.	24.72	35.10	23.52	437.9	0.044
30.	24.60	35.10			23.56	435.2	20.	24.66	35.10	23.54	436.6	0.088
50.	24.46	35.11			23.61	431.3	30.	24.60	35.10	23.56	435.2	0.132
76.	23.06	35.12			24.03	392.3	50.	24.46	35.11	23.61	431.3	0.219
100.	22.19	35.19			24.33	364.4	75.	23.12	35.12	24.01	394.0	0.323
125.	21.10	35.18			24.62	337.2	100.	22.19	35.19	24.33	364.4	0.419
151.	20.45	35.16			24.78	322.8	150.	20.48	35.16	24.78	323.3	0.592
175.	19.25	35.02			24.99	303.6	200.	17.89	34.82	25.18	286.3	0.746
190.	18.47	34.90			25.10	293.8	250.	14.84	34.49	25.63	244.0	0.880
225.	16.37	34.63			25.40	265.9	300.	12.21	34.25	25.98	210.5	0.994
251.	14.78	34.48			25.64	243.2	400.	9.57	34.13	26.36	175.0	1.189
277.	13.51	34.34			25.80	228.2	500.	7.26	34.07	26.67	145.6	1.350
302.	12.10	34.24			26.00	209.0	600.	5.89	34.13	26.90	124.1	1.487
401.	9.56	34.13			26.37	174.8	700.	4.96	34.22	27.08	106.6	1.603
503.	7.20	34.07			26.68	144.8	800.	4.34	34.32	27.23	92.7	1.704
605.	5.84	34.13			26.91	123.2	1000.	3.72	34.45	27.40	77.4	1.876
804.	4.32	34.32			27.23	92.3	1200.	3.35	34.52	27.49	69.3	2.025
1005.	3.71	34.45			27.40	77.2	1500.	2.75	34.56	27.58	61.2	2.223
1205.	3.34	34.52			27.49	69.2						
1507.	2.74	34.56			27.58	61.1						
CROMWELL 6, STATION 41, 23-30N LAT, 157- LW LCHG, ALC. 1, 1964, 0600 G.C.T. DRY BULB 25.0 WET BULB 21.2 WIND SPEED 16, DIR. 07 84R. 1E WEATHER 02 V15. 7 CLOUD TYPE 8, COVER 2												
DEPTH	TEMP.	SAL.	EXY.	PO4-P	SIGMA-T	CELT	DEPTH	TEMP.	SAL.	SIGMA-T	CELT	DYN. OPTH.
0.	25.62	34.90			23.10	478.1	0.	25.62	34.90	23.10	478.1	0.000
10.	25.63	34.90			23.09	478.0	10.	25.63	34.90	23.09	478.0	0.048
30.	25.60	34.90			23.10	478.8	20.	25.63	34.90	23.09	479.3	0.096
50.	25.38	34.91			23.18	472.4	30.	25.60	34.90	23.10	478.8	0.145
75.	24.43	35.00			23.53	439.4	50.	25.38	34.91	23.18	472.4	0.241
98.	23.44	35.14			23.93	402.2	75.	24.43	35.00	23.53	439.4	0.355
123.	22.63	35.20			24.21	376.5	100.	23.38	35.15	23.96	399.9	0.461
137.	22.02	35.18			24.37	362.0	150.	21.31	35.21	24.59	341.3	0.648
148.	21.48	35.24			24.56	343.7	200.	18.00	34.84	25.17	287.0	0.806
161.	20.34	35.03			24.71	329.7	250.	14.93	34.50	25.62	245.1	0.940
172.	19.76	35.03			24.87	315.4	300.	12.28	34.22	25.94	214.3	1.056
187.	18.85	34.94			25.03	300.0	400.	8.94	34.02	26.38	172.9	1.251
287.	12.84	34.26			25.87	221.2	500.	6.92	34.02	26.68	144.7	1.412
445.	7.97	34.02			26.53	150.8	600.	5.61	34.08	26.90	123.8	1.547
590.	5.71	34.07			26.88	125.8	700.	4.81	34.19	27.08	106.6	1.664
787.	4.40	34.30			27.21	94.5	800.	4.35	34.31	27.23	93.1	1.765
985.	3.86	34.46			27.39	78.0	1000.	3.82	34.47	27.40	77.2	1.937
1182.	3.36	34.51			27.48	70.0	1200.	3.33	34.53	27.50	67.9	2.084
1480.	2.79	34.56			27.57	61.5						

TEMPERATURE ERROR TERM AT 400. METERS IS 0.11

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL	6, STATION	42, 22- ON LAT, 156-58W LONG, AUG.	1, 1964, 1500 G.C.T.	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELT A	DYN. DPTM.
DRY BULB	23.3	NET BULB 21.9	WIND SPEED 20, DIR. 09	BAR. 16	WEATHER 62	VIS. 5	CLOUD TYPE 6, COVER 7						
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	DEPTH	TEMP.	SAL.	SIGMA-T	DELT A	DYN. DPTM.
0.	25.25	35.10			23.36	452.9	0.	25.25	35.10	23.36	452.9	0.000	
10.	25.26	35.10			23.36	453.6	10.	25.26	35.10	23.36	453.6	0.046	
30. Δ	25.18	35.10			23.38	452.0	20.	25.24	35.10	23.36	453.5	0.091	
50. Δ	24.90	35.11			23.48	444.0	30.	25.18	35.10	23.38	452.0	0.137	
75.	23.19	35.17			24.03	392.2	50.	24.90	35.11	23.40	444.0	0.227	
100.	21.83	35.16			24.41	356.9	75.	23.19	35.17	24.03	392.2	0.333	
124.	20.83	35.13			24.66	333.7	100.	21.83	35.16	24.41	356.9	0.427	
146.	19.44	35.00			24.93	308.8	150.	19.37	35.00	24.94	307.4	0.594	
172.	18.46	34.92			25.12	291.5	200.	16.29	34.67	25.45	260.5	0.737	
106.	17.44	34.79			25.27	277.4	250.	13.78	34.45	25.83	224.5	0.860	
221.	14.78*	34.53			25.68	238.7	300.	12.21	34.30	26.03	206.5	0.960	
246.	13.85	34.46			25.82	225.4	400.	9.01	34.09	26.42	169.1	1.158	
271.	13.39	34.42			25.88	219.6	500.	6.51	34.03	26.74	138.3	1.313	
295.	12.40	34.32			26.00	208.6	600.	5.50	34.15	26.97	117.1	1.442	
391.	9.29	34.10			26.39	172.4	700.	4.96	34.28	27.14	101.6	1.552	
488.	6.70	34.02			26.71	141.3	800.	4.63	34.39	27.26	90.6	1.650	
585.	5.60	34.13			26.94	119.6	1000.	3.96	34.48	27.40	77.6	1.820	
780.	4.71	34.38			27.24	92.3	1200.	3.41	34.55	27.51	68.0	1.968	
974.	4.04	34.47			27.38	79.4							
1166.	3.48	34.54			27.49	69.1							
1446.	2.92	34.58			27.58	61.4							

Δ PROM BT DATA
*INTERPOLATED DATA

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